

SPECIATION DATA SET 3

- Vapor Sampling Recommendations
- Vehicle Fuel Tank Headspace and Refueling Vapor Sampling Procedures
- Jar Headspace Sampling Procedure
- Summary of Shed Dilution and Jar Dilution Sampling Conditions
- Phase 2 Vehicle Tank Data
- Phase 2 and RF-A Jar Data
- Background Shed Data

555 Clyde Avenue, PO Box 7044, Mountain View, CA 94039
(415) 961-5700, FAX: (415) 964-5145

MEMORANDUM

To: Paul Hughes, Sarah Carter ARB
Kent Hoekman

From: Stefan Unnasch

Date: September 30, 1995

Subject: Vapor Space Sampling Recommendations, Revised

Here are my revised notes on recommendations for vapor space sampling based on discussions with Kent Hoekman. Please call me to discuss.

1. Recommend both vehicle and equilibrium bottle tests.

Equilibrium composition

2. For equilibrium bottle tests, refer to drawing from Chevron. Collect sample with a syringe. The actual sample volume will be somewhat unknown since the pressure in the syringe is unknown. Actual volume can be determined by injecting a standard; however, we are mostly interested in vapor compositions, so a precise determination of volume is not strictly necessary.

3. Inject the sample into a Tedlar bag with nitrogen dilution. See Chevron diagram, measure dilution volume. Do not use the SHED dilution technique.

4. Use bottle that is 50 percent full of fuel. Consider 500 to 1000 ml bottle. Use caution to avoid fuel weathering during transfer. Chevron recommends chilling 1 to 2 gallons of fuel in a freezer prior to transferring into 500 ml bottle. Otherwise, fill sample bottle quickly and avoid weathering. Prior to sampling, swirl liquid in bottle. Do not shake as liquid may deposit on the lid. Let the bottle sit for one hour. Store bottle in a room with stable ambient temperature close to 75°F. When sampling, make sure that liquid does not come in contact with the needle.

Vehicle vapor tests

5. For vehicle testing, the location of the sampling port is an issue raised by Chevron. One way to resolve the sampling issue is to collect the sample from displaced vapors exiting the vehicle tank. For the purposes of this study, gas composition is more important than vapor mass, at this time.

6. Collect sample from refueling. Build apparatus to simulate Stage 2 recovery. Make sure that no liquid can escape from full tube into vapor capture hose. See drawing. Collect sample during refueling. With the set up of hoses shown in the drawing, vapor from refueling should be expelled through the vapor escape tube and the sample collection tube.

7. Consider 10 ml sample from 1 to 4 gallons of fueling. Collect sample during middle of fueling event. Purge sample or collect sample with syringe and inject into a teflar bag for dilution.
8. Collect sample from vehicle vapor space using sampling technique from 1994 tests. Compare composition of vapors between 6. and 8.

Head Space Sampling Matrix

| Test, Condition | Fuels | Runs |
|--------------------------------------|-----------------|--|
| Equilibrium vapor space, ~80°F | Phase 2 RF-A | 2 samples each fuel, sample at same time |
| Vehicle refueling displaced vapor | Phase 2 RF-A | Drive vehicle, collect sample while fueling. Drain fuel. Drive vehicle, collect sample while fueling. Repeat next day with new fuel. |
| Vehicle ullage vapor density | Phase 2 RF-A | Collect sample from vapor space during above tests. Compare with displaced fuel results. 1 sample each fuel. |

Proposed Refueling Sampling Apparatus Rev. 2

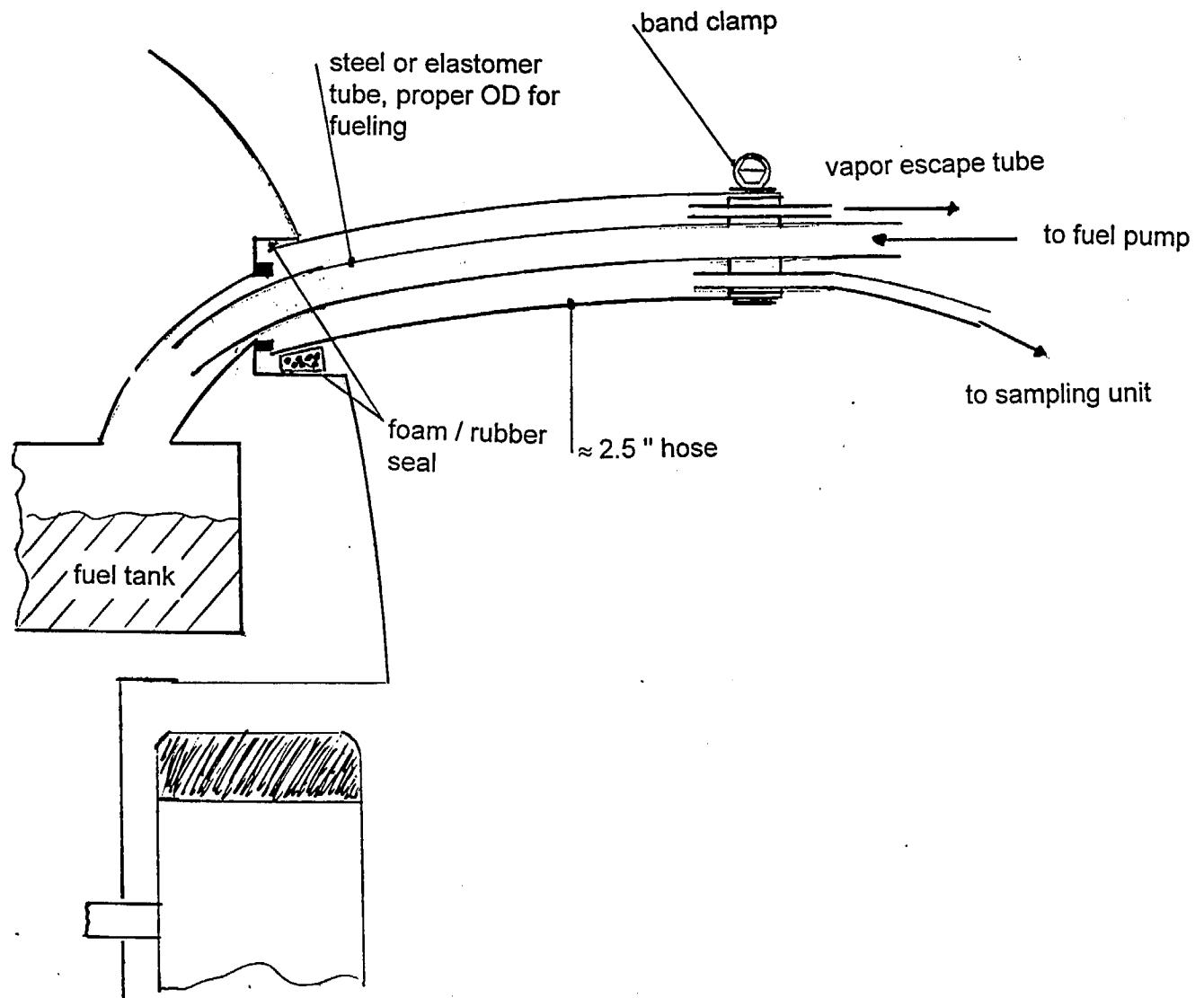
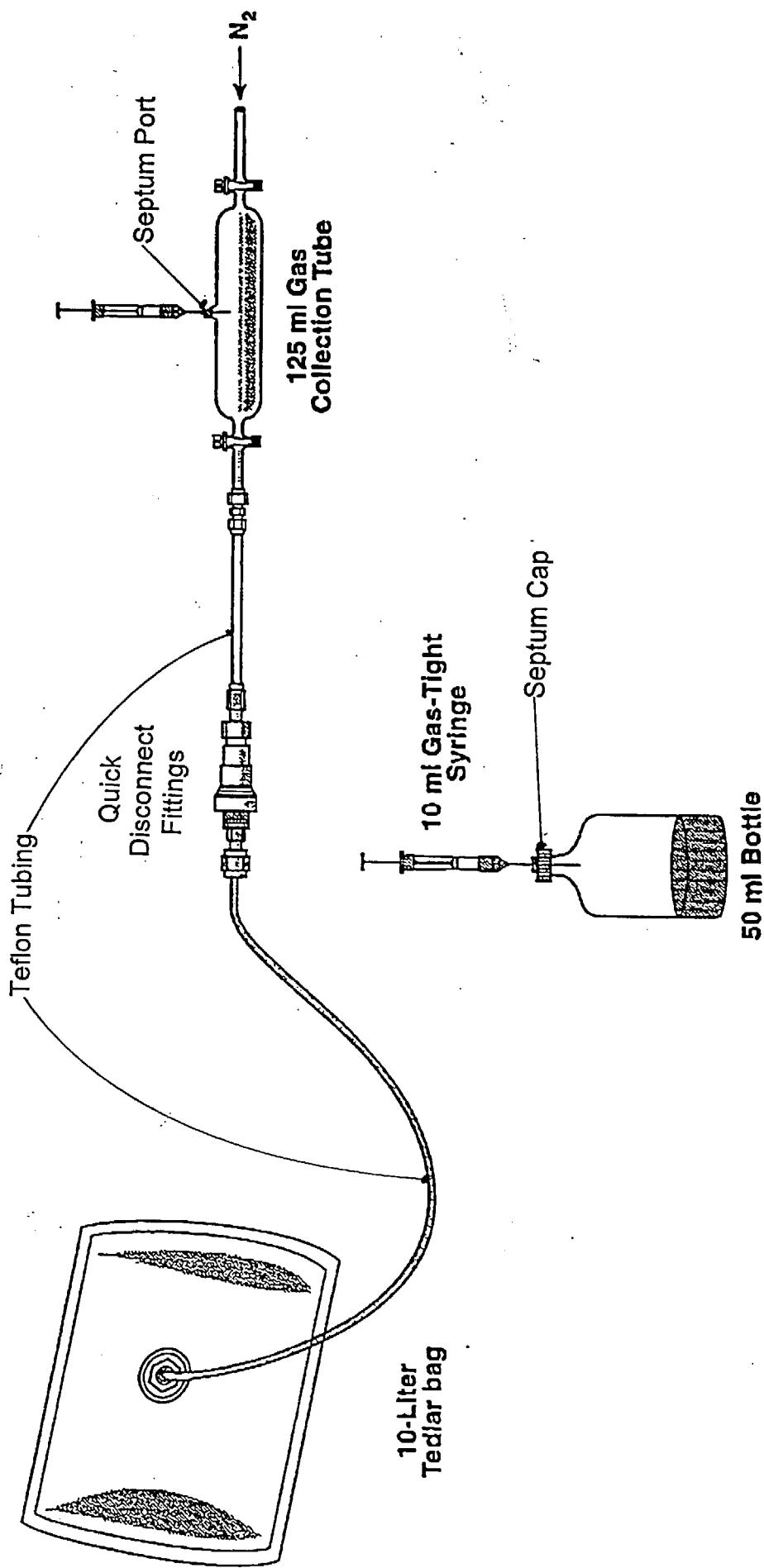


Figure 1
**Sampling Methodology for Gasoline Headspace
Collection**



Vehicle Fuel Tank Headspace and Refueling Vapor Sampling Procedure

1. Vehicle preconditioning with new test fuel.

Note: If the test is being perform with a new test fuel, then perform the step in this section.
The vehicle does not need to be preconditioned for repeat tests with the same fuel.

- a. Drain fuel from the vehicle fuel tank
- b. Purge fuel pump and fuel line with the test fuel.
- c. Add 2 gallons of test fuel into the vehicle fuel tank.
- d. Drive the vehicle 15 miles on the road.

2. Drain and fill to 10% fuel tank capacity.

- a. Purge fuel pump and fuel line with the test fuel.
- b. Fill fuel tank to 10% fuel tank capacity with the test fuel.
- c. Install test cap apparatus.

3. Fuel conditioning.

- a. Drive the vehicle on the road, approximately 25 miles.
- b. Soak the vehicle for 1 hour.

4. Headspace vapor sampling at 10% fuel level.

- a. Connect syringe sampling apparatus (SSA) to the test cap apparatus (TCA).
- b. Connect an evacuated 1L syringe to the end of the SSA.
- c. Fill and purge the syringe with 100ml of vapor 2 times. This flushes the SSA with fuel vapor.
- d. Disconnect the syringe from the SSA.
- e. Insert an evacuated 1ml gas syringe into the septa on the SSA.
- f. Fill and purge the syringe with vapor two times.
- g. Fill the syringe with 1ml of vapor and close the valve at the base of the syringe.

5. Practice dilution of headspace sample at 10% fuel level.

Note: This step is not needed for repeat tests with the same fuel. Sample and dilution volumes determined in the initial practice dilution should be used.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Disconnect the SSA from the TCA and purge with nitrogen gas.
- d. Connect the SSA to the 20L bag
- e. Open the valve at the base of the syringe, insert the syringe into the SSA and inject the vapor sample.
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.

- g. Fill the bag with 5L of nitrogen gas.
- h. Measure the THC concentration using a FID analyzer.
- i. Repeat steps 4.c through 5.h, adjusting the volume of nitrogen in step 5.g to achieve 100 +/- 20 ppmC THC.

Note: If further dilution is required, repeat the procedure using a smaller syringe vapor sample volume.

6. 10% Fuel level headspace vapor sample collection and dilution for specaition.

- a. Collect a vapor sample according to Step 4. The sample volume shall be 1ml unless a smaller sample was determined in step 5.
- b. Evacuate a new 20L tedlar bag.
- c. Fill the bag with 10L of nitrogen gas.
- d. Disconnect connect the SSA from the TCA and purge with nitrogen gas.
- e. Connect the SSA to the 20L bag
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 5-10L of nitrogen gas as determined in step 5.
- h. Deliver the bag to MLD for speciation.
- i. Collect a second sample according to steps 6.a. through 6.h.

7. FID measurement

- a. After speciating the diluted vapor sample, measure the THC concentration of the vapor samples using the FID analyzer in cell 1.

8. Drain and fill to 10% fuel tank capacity.

Note: This step is needed since as there isles the 10 % fuel in the tank after the prior on-road drive.

- b. Fill fuel tank to 10% fuel tank capacity with the test fuel.
- c. Install test cap apparatus.

8. Fuel conditioning:

- a. Drive the vehicle 25 miles on the road to condition the fuel.

9. Refueling sample collection and first sample dilution.

Note: Because the vapor composition may vary during the refueling process, the following method will be used to collect a composite sample over the entire refueling process.

- a. Fill a 200L tedlar bag with 150L of nitrogen.
- b. Using a 1L syringe, pull about 500ml of vapor through the sample line. This fills the sample line with vapor.
- c. Purge the fuel line with the test fuel.

- d. Open the refueling port on the TCA and connect the fuel nozzle to the **refueling port** of the TCA.
- e. Connect an open line to the **vent port** on the TCA.
- f. Connect the vapor sample line to the **sample port** on the TCA. The sample line routes a portion of the refueling vapor through a flow controller, a flow meter, and finally to the 200L bag.
- g. Fill the fuel at the maximum flow rate (approx. 4 gal/min)

Note: During refueling, regulate the sample flow rate to 1.5L/min and measure the total sample volume.

- h. Measure the total vapor sample volume.
- I. Fill the 200L bag with 50L of nitrogen through the vapor sample line.

10. Practice second dilution of diluted refueling vapor sample.

Note: This step is not needed for repeat tests with the same fuel. Use the sample and dilution volumes determined in the initial practice dilution of the refueling sample.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Connect an evacuated 1L syringe to the 200L bag.
- d. Fill and purge the syringe with 300ml from the 200L bag twice.
- e. Fill the syringe with 100ml of sample.
- f. Connect the syringe to the 20L bag and inject the sample into the bag.
- g. Fill and purge the syringe with 300ml of sample twice.
- h. Fill the bag with 5L of nitrogen gas.
- i. Measure the THC concentration of diluted vapors in the 20L bag using a FID analyzer.
- j. Repeat step a through g, adjusting the amount of nitrogen in step g to achieve 100 +/- 20 ppmC THC. If necessary, adjust the sample volume extracted from the 200L bag.

11. Second dilution of refueling vapor sample for speciation.

- a. Evacuate a **new** 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Connect an evacuated 1L syringe to the 200L bag.
- d. Fill and purge the syringe with 300ml of diluted vapor from the 200L bag.
- e. Fill the syringe with 100ml of sample unless another sample volume was determined from step 10.
- f. Disconnect the 1L syringe from the 200L bag.
- g. Connect the syringe to the 20L bag and inject the sample into the 20L bag.
- h. Fill and purge the syringe with 300ml of sample twice to flush the syringe.
- i. Fill the bag with 5-10L of nitrogen gas as determined in step 10.
- j. Deliver bag to MLD for speciation.
- k. Collect a second sample according to step 11.a. through 11.i.

12. FID measurement

- a. After speciating the diluted vapor samples, measure the THC concentration of the samples using the FID analyzer in cell 1.

13. Fuel conditioning:

- a. Drive Vehicle on road, approx. 25 miles.
- b. Soak the vehicle for 1 hour.

14. Headspace vapor sampling at 10% fuel level.

- a. Connect syringe sampling apparatus (SSA) to the test cap apparatus (TCA).
- b. Connect an evacuated 1L syringe to the end of the SSA.
- c. Fill and purge the syringe with 100ml of vapor 2 times. This flushes the SSA with fuel vapor.
- d. Disconnect the syringe from the SSA.
- e. Insert an evacuated 1ml gas syringe into the septa on the SSA.
- f. Fill and purge the syringe with vapor two times.
- g. Fill the syringe with 1ml of vapor and close the valve at the base of the syringe.

15. Practice Dilution of headspace sample at 90% fuel level.

Note: This step is not needed for repeat tests with the same fuel. Sample and dilution volumes determined in the initial practice dilution should be used.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Disconnect connect the SSA from the TCA and purge with nitrogen gas.
- d. Connect the SSA to the 20L bag
- e. Open the valve at the base of the syringe, insert the syringe into the SSA and inject the vapor sample.
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 5L of nitrogen gas.
- h. Measure the THC concentration using a FID analyzer.
- i. Repeat steps 14.a through 5.h, adjusting the volume of nitrogen in step 5.g to achieve 100 +/- 20 ppmC THC.

Note: If further dilution is required, repeat the procedure using a smaller syringe vapor sample volume.

16. 90% fuel level headspace vapor sample collection and dilution for specatition.

- a. Collect a vapor sample according to Step 4. The sample volume shall be 1ml unless a smaller sample was determined in step 5.
- b. Evacuate a new 20L tedlar bag.
- c. Fill the bag with 10L of nitrogen gas.
- d. Disconnect connect the SSA from the TCA and purge with nitrogen gas.
- e. Connect the SSA to the 20L bag

- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 5-10L of nitrogen gas as determined in step 5.
- h. Deliver the bag to MLD for speciation.
- i. Collect a second sample according to steps 14.a. through 14.h.

16. FID measurement

- a. After speciating the diluted vapor samples, measure the THC concentration of the samples using the FID analyzer in cell 1.

Jar Headspace Sampling Procedure

1. Preparation of the jar and filling the jar with test fuel.

- a. Refrigerate at approximately 33°F four empty 500ml fuel sampling jars with the lid on.
The jar lids shall be equipped with a septa for headspace vapor sampling.
- b. Place the jars in ice bath and transport to the fueling area.

Note: Fuel samples shall be collected by 10 am in morning when the ambient temperature is relatively cool.

- d. Purge the fuel line with Phase 2 test fuel.
- e. Fill two jars with 250ml of test fuel and seal the jars with the lids immediately after filling.
- f. Record the data the fuel lot number on each jars.
- g. Repeat steps 1.d to 1.f for RFA fuel.
- h. Store the fuels samples overnight in the refrigerator at approximately 33°F.

2. Fuel conditioning.

- a. Place one fuel sample of Phase 2 and RFA on the laboratory counter overnight (12 hours minimum) to stabilize the fuel temperature. The room temperature shall be 72 +/- 5°F.

3. Jar headspace vapor sampling .

- a. Open the valve at the base of the syringe and evacuate the syringe.
- b. Insert the syringe into the septa on the two of the jar for the Phase 2 fuel sample
- b. Fill and purge the syringe two times.
- c. Fill the syringe with 5ml of vapor and close the valve at the base of the syringe.

4. Practice jar headspace vapor dilution.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Purge the SSA with nitrogen and connect to the 20L bag.
- f. Insert the syringe into the SSA and open the valve at the base of the syringe.
- e. Inject the sample in the SSA.
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 10L of nitrogen.
- h. Measure the THC concentration in the bag using the FID analyzer in cell 1.
- i. Repeat steps 3 and 4, adjusting the volume of nitrogen in steps 4.b and 4.g to achieve 100 +/- 20 ppmC THC.

| Sample | Date | Time | A. TMP | E. TMP | Syr. Vol. | Bag Vol. | SH Syr Vol. | SHED Vol | FID Conc. | GC Conc. | Dilution | Source Conc. |
|-----------|----------|----------|--------|--------|-----------|----------|-------------|---------------|--------------|--------------|----------|--------------|
| | | | | | | | | | blkg/sample | blkg/sample | | PPM |
| S10-RFA-3 | 10/24/95 | 10:15 AM | 72.4 | 74 | | | 1 L | 1644.4 cu.ft. | 5.6/28.0 ppm | 2.3/24.0 ppm | 13,067 | 46,563 |
| SR-RFA-3 | 10/24/95 | 11:44 AM | 72.6 | 78 | | | 1 L | 1664.7 cu.ft. | 4.2/38.5 ppm | 1.3/33.9 | 19,461 | 47,138 |
| S90-RFA-3 | 10/25/95 | 7:31 AM | 69.7 | 93 | | | 1 L | 1683.8 cu.ft. | 5.2/47.9 ppm | 1.2/43.4 | 25,254 | 47,678 |
| J-RFA-3 | 10/25/95 | 1:20 PM | | | 0.25 ml | 5 L | na | na | na | 71.1 | 43,286 | 20,000 |
| J-RFA-4 | 10/25/95 | 1:20 PM | | | 0.25 ml | 5 L | na | na | na | 88.5 | 53,841 | 20,000 |
| J-PFH2-3 | 10/25/95 | 1:20 PM | | | 0.25 ml | 5 L | na | na | na | 66.4 | 39,696 | 20,000 |
| J-PFH2-4 | 10/25/95 | 1:20 PM | | | 0.25 ml | 5 L | na | na | na | 72.3 | 43,164 | 20,000 |
| | | | | | | | | | | | | 863 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | TR-PH2-1 PPBC | TR-PH2-2 PPBC | TR-PH2-3 PPBC | TR-PH2-4 PPBC |
|------------|---------------------|-------|------------------|------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.25 | 0 | 0 | 0 | 0 |
| 00074-85-1 | ethene | 7.29 | 0 | 0 | 0 | 0 |
| 00074-98-6 | propane | 0.48 | 131 | 123 | 210 | 180 |
| 00115-07-1 | propene | 9.4 | 0 | 0 | 0 | 0 |
| 00075-28-5 | methylpropane | 1.21 | 620 | 605 | 765 | 776 |
| 00074-86-2 | ethyne | 0.5 | 0 | 0 | 0 | 0 |
| 00106-97-8 | n-butane | 1.02 | 19100 | 18500 | 23300 | 23700 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 9.94 | 41 | 40 | 50 | 50 |
| 00106-98-9 | 1-butene | 8.91 | 18 | 18 | 22 | 22 |
| 00115-11-7 | 2-methylpropene | 5.31 | 29 | 26 | 26 | 26 |
| 00590-18-1 | cis-2-butene | 9.94 | 35 | 33 | 42 | 43 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 144 | 140 | 176 | 179 |
| 00078-78-4 | 2-methylbutane | 1.38 | 28000 | 27000 | 34300 | 34800 |
| 00074-99-7 | 1-propyne | 4.1 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1230 | 1150 | 1460 | 1480 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1750 | 1650 | 2090 | 2120 |
| 00109-67-1 | 1-pentene | 6.22 | 546 | 512 | 646 | 654 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1080 | 1030 | 1310 | 1330 |
| 00627-20-3 | cis-2-pentene | 8.8 | 657 | 619 | 788 | 795 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0 | 0 | 0 | 0 |

| | | | | | |
|-------|--------------------|----------|----------|----------|----------|
| LE-ST | Light End Subtotal | 53381.00 | 51446.00 | 65185.00 | 66155.00 |
|-------|--------------------|----------|----------|----------|----------|

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | PHASE 1 TR-PH2-1 PPBC | TR-PH2-2 PPBC | TR-PH2-3 PPBC | TR-PH2-4 PPBC |
|------------|--------------------------|------|-----------------------------|------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 122 | 121 | 155 | 156 |
| 00109-66-0 | n-pentane | 1.04 | 3150 | 3080 | 3940 | 3990 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 41 | 34 | 45 | 44 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0 | 0 | 15 | 15 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 27 | 22 | 29 | 29 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 719 | 706 | 910 | 920 |
| 00142-29-0 | cyclopentene | 7.66 | 160 | 149 | 188 | 191 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 95 | 91 | 115 | 117 |
| 00287-92-3 | cyclopentane | 2.38 | 99 | 94 | 120 | 121 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1740 | 1680 | 2160 | 2190 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0 | 0 | 0 | 0 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 11200 | 10200 | 12800 | 13000 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 1.53 | 3460 | 3320 | 4240 | 4290 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 132 | 102 | 125 | 125 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1570 | 1490 | 1910 | 1940 |
| 00592-41-6 | 1-hexene | 4.42 | 66 | 61 | 77 | 78 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 141 | 130 | 164 | 166 |
| 00110-54-3 | n-hexane | 0.98 | 636 | 595 | 761 | 771 |
| 13269-52-8 | trans-3-hexene | 6.69 | 107 | 98 | 124 | 126 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 6.69 | 207 | 189 | 238 | 241 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 172 | 160 | 201 | 204 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 131 | 122 | 154 | 156 |
| 07688-21-3 | cis-2-hexene | 6.69 | 82 | 75 | 95 | 96 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 2.82 | 369 | 339 | 434 | 439 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 1380 | 1290 | 1660 | 1680 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0 | 0 | 0 | 0 |
| 00071-43-2 | benzene | 0.42 | 947 | 750 | 907 | 909 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0 | 0 | 0 | 0 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 31 | 29 | 35 | 35 |
| 00110-82-7 | cyclohexane | 1.28 | 49 | 44 | 56 | 56 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0 | 0 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 28 | 23 | 28 | 26 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 2410 | 2160 | 2760 | 2790 |
| 00110-83-8 | cyclohexene | 5.67 | 25 | 21 | 27 | 26 |
| 00589-34-4 | 3-methylhexane | 1.40 | 434 | 381 | 485 | 489 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 65 | 54 | 68 | 68 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 56 | 46 | 58 | 58 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 95 | 81 | 103 | 104 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 3130 | 2770 | 3550 | 3590 |
| 00592-76-7 | 1-heptene | 3.48 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0 | 0 | 0 | 0 |
| 14686-14-7 | trans-3-heptene | 5.53 | 121 | 70 | 55 | 53 |
| 00142-82-5 | n-heptane | 0.81 | 270 | 220 | 274 | 278 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0 | 0 | 0 | 0 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 31 | 24 | 30 | 30 |
| 14686-13-6 | trans-2-heptene | 5.53 | 23 | 17 | 20 | 20 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 50 | 37 | 47 | 47 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 5.53 | 22 | 16 | 19 | 19 |
| 00108-87-2 | methylcyclohexane | 1.85 | 102 | 83 | 102 | 104 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 19 | 15 | 19 | 19 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 25 | 20 | 25 | 26 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 177 | 144 | 181 | 183 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 193 | 158 | 200 | 202 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0 | 0 | 0 | 0 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 557 | 441 | 548 | 553 |
| 00108-88-3 | toluene | 2.73 | 2610 | 1880 | 2140 | 2140 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 153 | 119 | 144 | 145 |
| 00592-27-8 | 2-methylheptane | 0.96 | 74 | 56 | 67 | 68 |
| 00589-53-7 | 4-methylheptane | 1.20 | 39 | 29 | 35 | 34 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 00589-81-1 | 3-methylheptane | 0.99 | 111 | 82 | 98 | 98 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 79 | 58 | 79 | 79 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 00111-66-0 | 1-octene | 2.69 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 5.29 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0.61 | 42 | 28 | 32 | 32 |
| 13389-42-9 | trans-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |
| 00100-41-4 | ethylbenzene | 2.70 | 230 | 149 | 143 | 142 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|-----------|-----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 496 | 321 | 298 | 295 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0 | 0 | 0 | 0 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0 | 0 | 0 | 0 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0 | 0 | 0 | 0 |
| 00100-42-5 | styrene | 2.22 | 0 | 0 | 0 | 0 |
| 00095-47-6 | o-xylene | 6.46 | 141 | 90 | 80 | 82 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 16 | 0 | 0 | 0 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 22 | 0 | 0 | 0 |
| 00124-11-8 | 1-nonene | 2.23 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 0.54 | 16 | 0 | 0 | 0 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00103-65-1 | n-propylbenzene | 2.12 | 20 | 0 | 0 | 0 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 51 | 29 | 23 | 23 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 25 | 0 | 0 | 0 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 342 | 370 | 375 | 360 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0 | 0 | 0 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 19 | 0 | 0 | 0 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 57 | 30 | 25 | 26 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 0.47 | 0 | 0 | 0 | 0 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0 | 0 | 0 | 0 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0 | 0 | 0 | 0 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 00824-22-6 | 4-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 1.18 | 0 | 0 | 0 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0 | 0 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0.38 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | | 39209.00 | 34993.00 | 43796.00 | 44294.00 |
| NMHC-ST | NMHC Subtotal | | 92590.00 | 86439.00 | 108981.00 | 110449.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | TR-PH2-1 UG/M3 | TR-PH2-2 UG/M3 | TR-PH2-3 UG/M3 | TR-PH2-4 UG/M3 |
|------------|---------------------|-------|-------------------|-------------------|-------------------|-------------------|
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 80.06 | 75.17 | 128.34 | 110.01 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 374.58 | 365.52 | 462.19 | 468.83 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 11539.55 | 11177.05 | 14077.04 | 14318.71 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 23.91 | 23.33 | 29.16 | 29.16 |
| 00106-98-9 | 1-butene | 8.91 | 10.50 | 10.50 | 12.83 | 12.83 |
| 00115-11-7 | 2-methylpropene | 5.31 | 16.91 | 15.16 | 15.16 | 15.16 |
| 00590-18-1 | cis-2-butene | 9.94 | 20.41 | 19.25 | 24.49 | 25.08 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 86.40 | 84.00 | 105.60 | 107.40 |
| 00078-78-4 | 2-methylbutane | 1.38 | 16799.28 | 16199.30 | 20579.11 | 20879.10 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 717.35 | 670.69 | 851.49 | 863.15 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1020.62 | 962.30 | 1218.91 | 1236.41 |
| 00109-67-1 | 1-pentene | 6.22 | 318.43 | 298.60 | 376.75 | 381.42 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 629.87 | 600.71 | 764.01 | 775.67 |
| 00627-20-3 | cis-2-pentene | 8.8 | 383.17 | 361.01 | 459.57 | 463.65 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 32021.04 | 30862.59 | 39104.66 | 39686.58 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | TR-PH2-1 UG/M3 | TR-PH2-2 UG/M3 | TR-PH2-3 UG/M3 | TR-PH2-4 UG/M3 |
|------------|--------------------------|------|-------------------|-------------------|-------------------|-------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 71.15 | 70.57 | 90.40 | 90.98 |
| 00109-66-0 | n-pentane | 1.04 | 1889.92 | 1847.92 | 2363.90 | 2393.90 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 23.22 | 19.26 | 25.49 | 24.92 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 8.75 | 8.75 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 15.29 | 12.46 | 16.43 | 16.43 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 429.37 | 421.61 | 543.43 | 549.41 |
| 00142-29-0 | cyclopentene | 7.66 | 90.63 | 84.40 | 106.49 | 108.19 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 56.73 | 54.34 | 68.68 | 69.87 |
| 00287-92-3 | cyclopentane | 2.38 | 57.74 | 54.82 | 69.99 | 70.57 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1039.09 | 1003.26 | 1289.91 | 1307.82 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 8209.79 | 7476.77 | 9382.62 | 9529.22 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 2066.24 | 1982.64 | 2532.04 | 2561.90 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 76.98 | 59.49 | 72.90 | 72.90 |
| 00096-14-0 | 3-methylpentane | 1.52 | 937.57 | 889.80 | 1140.61 | 1158.53 |
| 00592-41-6 | 1-hexene | 4.42 | 38.49 | 35.58 | 44.91 | 45.49 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 82.23 | 75.82 | 95.65 | 96.81 |
| 00110-54-3 | n-hexane | 0.98 | 379.81 | 355.32 | 454.45 | 460.43 |
| 13269-52-8 | trans-3-hexene | 6.69 | 62.40 | 57.15 | 72.32 | 73.48 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 120.72 | 110.23 | 138.80 | 140.55 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 100.31 | 93.31 | 117.23 | 118.97 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 74.57 | 69.45 | 87.66 | 88.80 |
| 07688-21-3 | cis-2-hexene | 6.69 | 47.82 | 43.74 | 55.41 | 55.99 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 215.20 | 197.71 | 253.11 | 256.03 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 821.35 | 767.79 | 988.01 | 999.91 |

| | | | | | | |
|------------|--------------------------------------|------|---------|---------|---------|---------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 512.61 | 405.98 | 490.96 | 492.04 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 18.08 | 16.91 | 20.41 | 20.41 |
| 00110-82-7 | cyclohexane | 1.28 | 28.58 | 25.66 | 32.66 | 32.66 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 16.33 | 13.41 | 16.33 | 15.16 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1434.39 | 1285.60 | 1642.71 | 1660.56 |
| 00110-83-8 | cyclohexene | 5.67 | 14.23 | 11.95 | 15.37 | 14.80 |
| 00589-34-4 | 3-methylhexane | 1.40 | 258.31 | 226.77 | 288.66 | 291.05 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 37.91 | 31.49 | 39.66 | 39.66 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 32.66 | 26.83 | 33.83 | 33.83 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 56.54 | 48.21 | 61.30 | 61.90 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 1858.24 | 1644.52 | 2107.59 | 2131.34 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 5.53 | 70.57 | 40.82 | 32.08 | 30.91 |
| 00142-82-5 | n-heptane | 0.81 | 160.70 | 130.94 | 163.08 | 165.46 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 18.08 | 14.00 | 17.50 | 17.50 |
| 14686-13-6 | trans-2-heptene | 5.53 | 13.41 | 9.91 | 11.66 | 11.66 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 29.16 | 21.58 | 27.41 | 27.41 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 12.83 | 9.33 | 11.08 | 11.08 |
| 00108-87-2 | methylcyclohexane | 1.85 | 59.49 | 48.41 | 59.49 | 60.65 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 11.28 | 8.91 | 11.28 | 11.28 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 14.58 | 11.66 | 14.58 | 15.16 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 105.08 | 85.49 | 107.46 | 108.64 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 114.58 | 93.80 | 118.74 | 119.92 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 330.68 | 261.82 | 325.34 | 328.31 |
| 00108-88-3 | toluene | 2.73 | 1428.42 | 1028.90 | 1171.20 | 1171.20 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 90.83 | 70.65 | 85.49 | 86.08 |
| 00592-27-8 | 2-methylheptane | 0.96 | 43.93 | 33.25 | 39.78 | 40.37 |
| 00589-53-7 | 4-methylheptane | 1.20 | 23.15 | 17.22 | 20.78 | 20.19 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 65.90 | 48.68 | 58.18 | 58.18 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 46.81 | 34.37 | 46.81 | 46.81 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 24.93 | 16.62 | 19.00 | 19.00 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-41-4 | ethylbenzene | 2.70 | 126.91 | 82.22 | 78.90 | 78.35 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 273.68 | 177.12 | 164.43 | 162.77 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 77.80 | 49.66 | 44.14 | 45.25 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 10.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 13.02 | 0.00 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 9.50 | 0.00 | 0.00 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 11.11 | 0.00 | 0.00 | 0.00 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 28.32 | 16.10 | 12.77 | 12.77 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 13.88 | 0.00 | 0.00 | 0.00 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 189.90 | 205.45 | 208.23 | 199.90 |
| 00587-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 10.55 | 0.00 | 0.00 | 0.00 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 31.65 | 16.66 | 13.88 | 14.44 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 24635.32 | 22054.34 | 27631.95 | 27956.58 |
| NMHC-ST | NMHC Subtotal | | 56656.36 | 52916.92 | 66736.61 | 67643.16 |

| LIGHT END HYDROCARBONS (MLD METHOD #) | | MIR | TR-PH2-1 | TR-PH2-2 | TR-PH2-3 | TR-PH2-4 |
|--|---------------------|-------|----------|----------|----------|----------|
| CAS # | COMPOUND | | WT% | WT% | WT% | WT% |
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 0.14 | 0.14 | 0.19 | 0.16 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 0.66 | 0.69 | 0.69 | 0.69 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 20.37 | 21.12 | 21.09 | 21.17 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 0.04 | 0.04 | 0.04 | 0.04 |
| 00106-98-9 | 1-butene | 8.91 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00115-11-7 | 2-methylpropene | 5.31 | 0.03 | 0.03 | 0.02 | 0.02 |
| 00590-18-1 | cis-2-butene | 9.94 | 0.04 | 0.04 | 0.04 | 0.04 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 0.15 | 0.16 | 0.16 | 0.16 |
| 00078-78-4 | 2-methylbutane | 1.38 | 29.65 | 30.61 | 30.84 | 30.87 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1.27 | 1.27 | 1.28 | 1.28 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1.80 | 1.82 | 1.83 | 1.83 |
| 00109-67-1 | 1-pentene | 6.22 | 0.56 | 0.56 | 0.56 | 0.56 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1.11 | 1.14 | 1.14 | 1.15 |
| 00627-20-3 | cis-2-pentene | 8.8 | 0.68 | 0.68 | 0.69 | 0.69 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 56.52 | 58.32 | 58.60 | 58.67 |

| MID-RANGE HYDROCARBONS (METHOD #1003) | | MIR | TR-PH2-1 | TR-PH2-2 | TR-PH2-3 | TR-PH2-4 |
|---------------------------------------|--------------------------|------|----------|----------|----------|----------|
| CAS # | COMPOUND | | WT% | WT% | WT% | WT% |
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 0.13 | 0.13 | 0.14 | 0.13 |
| 00109-66-0 | n-pentane | 1.04 | 3.34 | 3.49 | 3.54 | 3.54 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 0.04 | 0.04 | 0.04 | 0.04 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.01 | 0.01 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 0.03 | 0.02 | 0.02 | 0.02 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 0.76 | 0.80 | 0.81 | 0.81 |
| 00142-29-0 | cyclopentene | 7.66 | 0.16 | 0.16 | 0.16 | 0.16 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 0.10 | 0.10 | 0.10 | 0.10 |
| 00287-92-3 | cyclopentane | 2.38 | 0.10 | 0.10 | 0.10 | 0.10 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1.83 | 1.90 | 1.93 | 1.93 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 14.49 | 14.13 | 14.06 | 14.09 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 3.65 | 3.75 | 3.79 | 3.79 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 0.14 | 0.11 | 0.11 | 0.11 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1.65 | 1.68 | 1.71 | 1.71 |
| 00592-41-6 | 1-hexene | 4.42 | 0.07 | 0.07 | 0.07 | 0.07 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 0.15 | 0.14 | 0.14 | 0.14 |
| 00110-54-3 | n-hexane | 0.98 | 0.67 | 0.67 | 0.68 | 0.68 |
| 13269-52-8 | trans-3-hexene | 6.69 | 0.11 | 0.11 | 0.11 | 0.11 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 0.21 | 0.21 | 0.21 | 0.21 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 0.18 | 0.18 | 0.18 | 0.18 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 0.13 | 0.13 | 0.13 | 0.13 |
| 07688-21-3 | cis-2-hexene | 6.69 | 0.08 | 0.08 | 0.08 | 0.08 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 0.38 | 0.37 | 0.38 | 0.38 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 1.45 | 1.45 | 1.48 | 1.48 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 0.90 | 0.77 | 0.74 | 0.73 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 0.03 | 0.03 | 0.03 | 0.03 |
| 00110-82-7 | cyclohexane | 1.28 | 0.05 | 0.05 | 0.05 | 0.05 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 0.03 | 0.03 | 0.02 | 0.02 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 2.53 | 2.43 | 2.46 | 2.45 |
| 00110-83-8 | cyclohexene | 5.67 | 0.03 | 0.02 | 0.02 | 0.02 |
| 00589-34-4 | 3-methylhexane | 1.40 | 0.46 | 0.43 | 0.43 | 0.43 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 0.07 | 0.06 | 0.06 | 0.06 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 0.06 | 0.05 | 0.05 | 0.05 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 0.10 | 0.09 | 0.09 | 0.09 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 3.28 | 3.11 | 3.16 | 3.15 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 5.53 | 0.12 | 0.08 | 0.05 | 0.05 |
| 00142-82-5 | n-heptane | 0.81 | 0.28 | 0.25 | 0.24 | 0.24 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 0.03 | 0.03 | 0.03 | 0.03 |
| 14686-13-6 | trans-2-heptene | 5.53 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 0.05 | 0.04 | 0.04 | 0.04 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00108-87-2 | methylcyclohexane | 1.85 | 0.10 | 0.09 | 0.09 | 0.09 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 0.03 | 0.02 | 0.02 | 0.02 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 0.19 | 0.16 | 0.16 | 0.16 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 0.20 | 0.18 | 0.18 | 0.18 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 0.58 | 0.49 | 0.49 | 0.49 |
| 00108-88-3 | toluene | 2.73 | 2.52 | 1.94 | 1.75 | 1.73 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 0.16 | 0.13 | 0.13 | 0.13 |
| 00592-27-8 | 2-methylheptane | 0.96 | 0.08 | 0.06 | 0.06 | 0.06 |
| 00589-53-7 | 4-methylheptane | 1.20 | 0.04 | 0.03 | 0.03 | 0.03 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 0.12 | 0.09 | 0.09 | 0.09 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 0.08 | 0.06 | 0.07 | 0.07 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 0.04 | 0.03 | 0.03 | 0.03 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-41-4 | ethylbenzene | 2.70 | 0.22 | 0.16 | 0.12 | 0.12 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|--------|--------|--------|--------|
| 00108-38-3 | m- & p-xylene | 7.64 | 0.48 | 0.33 | 0.25 | 0.24 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 0.14 | 0.09 | 0.07 | 0.07 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.02 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.02 | 0.00 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.02 | 0.00 | 0.00 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 0.02 | 0.00 | 0.00 | 0.00 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 0.05 | 0.03 | 0.02 | 0.02 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 0.02 | 0.00 | 0.00 | 0.00 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 0.34 | 0.39 | 0.31 | 0.30 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0.02 | 0.00 | 0.00 | 0.00 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 0.06 | 0.03 | 0.02 | 0.02 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 43.48 | 41.68 | 41.40 | 41.33 |
| NMHC-ST | NMHC Subtotal | | 100.00 | 100.00 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | T10-PH2-1 PPBC | T10-PH2-2 PPBC | T10-PH2-3 PPBC | T10-PH2-4 PPBC |
|------------|---------------------|-------|-------------------|-------------------|-------------------|-------------------|
| 00074-84-0 | ethane | 0.25 | 0 | 0 | 0 | 0 |
| 00074-85-1 | ethene | 7.29 | 0 | 0 | 0 | 0 |
| 00074-98-6 | propane | 0.48 | 135 | 136 | 152 | 150 |
| 00115-07-1 | propene | 9.4 | 0 | 0 | 0 | 0 |
| 00075-28-5 | methylpropane | 1.21 | 717 | 722 | 599 | 636 |
| 00074-86-2 | ethyne | 0.5 | 0 | 0 | 0 | 0 |
| 00106-97-8 | n-butane | 1.02 | 19100 | 19100 | 15300 | 16400 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 9.94 | 36 | 35 | 28 | 30 |
| 00106-98-9 | 1-butene | 8.91 | 17 | 18 | 0 | 15 |
| 00115-11-7 | 2-methylpropene | 5.31 | 28 | 24 | 17 | 18 |
| 00590-18-1 | cis-2-butene | 9.94 | 31 | 30 | 24 | 26 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 174 | 175 | 144 | 154 |
| 00078-78-4 | 2-methylbutane | 1.38 | 27200 | 27300 | 21700 | 23500 |
| 00074-99-7 | 1-propyne | 4.1 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 8.8 | 900 | 901 | 696 | 761 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1320 | 1330 | 1030 | 1120 |
| 00109-67-1 | 1-pentene | 6.22 | 443 | 437 | 342 | 370 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 903 | 908 | 715 | 776 |
| 00627-20-3 | cis-2-pentene | 8.8 | 485 | 492 | 381 | 415 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0 | 0 | 0 | 0 |
| LE-ST | Light End Subtotal | | 51489.00 | 51608.00 | 41128.00 | 44371.00 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | PHASE 1 T10-PH2-1 PPBC | T10-PH2-2 PPBC | T10-PH2-3 PPBC | T10-PH2-4 PPBC |
|------------|--------------------------|------|------------------------------|-------------------|-------------------|-------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 125 | 126 | 99 | 107 |
| 00109-66-0 | n-pentane | 1.04 | 2660 | 2670 | 2060 | 2250 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 26 | 27 | 20 | 22 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0 | 0 | 0 | 0 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 15 | 15 | 0 | 0 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 733 | 741 | 597 | 652 |
| 00142-29-0 | cyclopentene | 7.66 | 107 | 108 | 84 | 92 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 81 | 81 | 66 | 72 |
| 00287-92-3 | cyclopentane | 2.38 | 74 | 75 | 60 | 65 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1600 | 1630 | 1320 | 1450 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0 | 0 | 0 | 0 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 8730 | 8870 | 7250 | 7960 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 1.53 | 2960 | 3010 | 2450 | 2690 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 98 | 98 | 85 | 88 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1320 | 1340 | 1100 | 1210 |
| 00592-41-6 | 1-hexene | 4.42 | 46 | 47 | 38 | 42 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 104 | 107 | 86 | 96 |
| 00110-54-3 | n-hexane | 0.98 | 470 | 482 | 397 | 442 |
| 13269-52-8 | trans-3-hexene | 6.69 | 73 | 75 | 61 | 69 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 6.69 | 140 | 143 | 118 | 132 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 122 | 125 | 103 | 115 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 99 | 100 | 82 | 92 |
| 07688-21-3 | cis-2-hexene | 6.69 | 58 | 58 | 48 | 54 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 2.82 | 278 | 286 | 240 | 269 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 1230 | 1270 | 1090 | 1230 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0 | 0 | 0 | 0 |
| 00071-43-2 | benzene | 0.42 | 452 | 464 | 402 | 455 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0 | 0 | 0 | 0 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 28 | 32 | 26 | 31 |
| 00110-82-7 | cyclohexane | 1.28 | 36 | 41 | 33 | 40 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0 | 0 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 19 | 28 | 16 | 26 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 2120 | 2220 | 1950 | 2250 |
| 00110-83-8 | cyclohexene | 5.67 | 15 | 21 | 0 | 20 |
| 00589-34-4 | 3-methylhexane | 1.40 | 363 | 391 | 339 | 400 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 47 | 55 | 45 | 56 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 41 | 49 | 39 | 50 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 77 | 86 | 73 | 88 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 3190 | 3370 | 3010 | 3510 |
| 00592-76-7 | 1-heptene | 3.48 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0 | 0 | 0 | 0 |
| 14686-14-7 | trans-3-heptene | 5.53 | 30 | 18 | 31 | 39 |
| 00142-82-5 | n-heptane | 0.81 | 201 | 220 | 200 | 239 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0 | 0 | 0 | 0 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 21 | 23 | 21 | 25 |
| 14686-13-6 | trans-2-heptene | 5.53 | 0 | 17 | 0 | 18 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 35 | 41 | 34 | 44 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0 | 17 | 0 | 18 |
| 00108-87-2 | methylcyclohexane | 1.85 | 79 | 87 | 78 | 94 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 18 | 20 | 17 | 21 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 19 | 21 | 20 | 23 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 170 | 183 | 171 | 206 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 189 | 203 | 190 | 227 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0 | 0 | 0 | 15 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0 | 0 | 0 | 0 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 552 | 592 | 552 | 670 |
| 00108-88-3 | toluene | 2.73 | 1570 | 1660 | 1660 | 2000 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 146 | 156 | 150 | 181 |
| 00592-27-8 | 2-methylheptane | 0.96 | 68 | 74 | 74 | 89 |
| 00589-53-7 | 4-methylheptane | 1.20 | 36 | 38 | 38 | 46 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 00589-81-1 | 3-methylheptane | 0.99 | 103 | 111 | 110 | 133 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 94 | 102 | 100 | 124 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 00111-66-0 | 1-octene | 2.69 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 5.29 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0.61 | 36 | 40 | 42 | 51 |
| 13389-42-9 | trans-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0 | 0 | 0 | 15 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0 | 0 | 0 | 19 |
| 00100-41-4 | ethylbenzene | 2.70 | 165 | 173 | 196 | 243 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 392 | 408 | 453 | 575 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0 | 0 | 0 | 18 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0 | 0 | 0 | 0 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0 | 0 | 0 | 16 |
| 00100-42-5 | styrene | 2.22 | 0 | 0 | 0 | 0 |
| 00095-47-6 | o-xylene | 6.46 | 127 | 130 | 140 | 181 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 17 | 17 | 19 | 22 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 25 | 25 | 25 | 35 |
| 00124-11-8 | 1-nonene | 2.23 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 0.54 | 15 | 17 | 18 | 23 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00103-65-1 | n-propylbenzene | 2.12 | 23 | 23 | 21 | 30 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 70 | 69 | 64 | 86 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 34 | 34 | 30 | 40 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 226 | 380 | 249 | 354 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0 | 0 | 0 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 27 | 27 | 20 | 28 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 106 | 107 | 84 | 114 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 0.47 | 0 | 0 | 0 | 0 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 19 | 20 | 0 | 19 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0 | 0 | 0 | 0 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0 | 16 | 0 | 0 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 18 | 20 | 0 | 16 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 18 | 22 | 0 | 15 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0 | 19 | 0 | 0 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 00824-22-6 | 4-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 1.18 | 0 | 0 | 0 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0 | 15 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0.38 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | | 32186.00 | 33386.00 | 28194.00 | 32237.00 |
| NMHC-ST | NMHC Subtotal | | 83675.00 | 84994.00 | 69322.00 | 76608.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | T10-PH2-1 UG/M3 | T10-PH2-2 UG/M3 | T10-PH2-3 UG/M3 | T10-PH2-4 UG/M3 |
|------------|---------------------|-------|--------------------|--------------------|--------------------|--------------------|
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 82.51 | 83.12 | 92.89 | 91.67 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 433.19 | 436.21 | 361.89 | 384.25 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 11539.55 | 11539.55 | 9243.72 | 9908.31 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 21.00 | 20.41 | 16.33 | 17.50 |
| 00106-98-9 | 1-butene | 8.91 | 9.91 | 10.50 | 0.00 | 8.75 |
| 00115-11-7 | 2-methylpropene | 5.31 | 16.33 | 14.00 | 9.91 | 10.50 |
| 00590-18-1 | cis-2-butene | 9.94 | 18.08 | 17.50 | 14.00 | 15.16 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 104.40 | 105.00 | 86.40 | 92.40 |
| 00078-78-4 | 2-methylbutane | 1.38 | 16319.30 | 16379.29 | 13019.44 | 14099.39 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 524.89 | 525.47 | 405.91 | 443.82 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 769.84 | 775.67 | 600.71 | 653.20 |
| 00109-67-1 | 1-pentene | 6.22 | 258.36 | 254.86 | 199.46 | 215.79 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 526.64 | 529.56 | 417.00 | 452.57 |
| 00627-20-3 | cis-2-pentene | 8.8 | 282.86 | 286.94 | 222.20 | 242.03 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 30906.84 | 30978.07 | 24689.87 | 26635.33 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | T10-PH2-1 UG/M3 | T10-PH2-2 UG/M3 | T10-PH2-3 UG/M3 | T10-PH2-4 UG/M3 |
|------------|--------------------------|------|--------------------|--------------------|--------------------|--------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 72.90 | 73.48 | 57.74 | 62.40 |
| 00109-66-0 | n-pentane | 1.04 | 1595.93 | 1601.93 | 1235.95 | 1349.94 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 14.73 | 15.29 | 11.33 | 12.46 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 8.50 | 8.50 | 0.00 | 0.00 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 437.73 | 442.51 | 356.52 | 389.36 |
| 00142-29-0 | cyclopentene | 7.66 | 60.61 | 61.18 | 47.58 | 52.11 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 48.37 | 48.37 | 39.41 | 43.00 |
| 00287-92-3 | cyclopentane | 2.38 | 43.16 | 43.74 | 34.99 | 37.91 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 955.49 | 973.40 | 788.28 | 865.91 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 6399.24 | 6501.86 | 5314.37 | 5834.82 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 1767.65 | 1797.51 | 1463.09 | 1606.41 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 57.15 | 57.15 | 49.57 | 51.32 |
| 00096-14-0 | 3-methylpentane | 1.52 | 788.28 | 800.22 | 656.90 | 722.59 |
| 00592-41-6 | 1-hexene | 4.42 | 26.83 | 27.41 | 22.16 | 24.49 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 60.65 | 62.40 | 50.16 | 55.99 |
| 00110-54-3 | n-hexane | 0.98 | 280.67 | 287.84 | 237.08 | 263.95 |
| 13269-52-8 | trans-3-hexene | 6.69 | 42.57 | 43.74 | 35.58 | 40.24 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 81.65 | 83.40 | 68.82 | 76.98 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 71.15 | 72.90 | 60.07 | 67.07 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 56.35 | 56.92 | 46.68 | 52.37 |
| 07688-21-3 | cis-2-hexene | 6.69 | 33.83 | 33.83 | 27.99 | 31.49 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 162.13 | 166.80 | 139.97 | 156.88 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 732.08 | 755.88 | 648.75 | 732.08 |

| | | | | | | |
|------------|--------------------------------------|------|---------|---------|---------|---------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 244.67 | 251.16 | 217.60 | 246.29 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 16.33 | 18.66 | 15.16 | 18.08 |
| 00110-82-7 | cyclohexane | 1.28 | 21.00 | 23.91 | 19.25 | 23.33 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 11.08 | 16.33 | 9.33 | 15.16 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1261.79 | 1321.31 | 1160.61 | 1339.17 |
| 00110-83-8 | cyclohexene | 5.67 | 8.54 | 11.95 | 0.00 | 11.38 |
| 00589-34-4 | 3-methylhexane | 1.40 | 216.05 | 232.72 | 201.77 | 238.07 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 27.41 | 32.08 | 26.24 | 32.66 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 23.91 | 28.58 | 22.75 | 29.16 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 45.83 | 51.19 | 43.45 | 52.38 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 1893.86 | 2000.73 | 1787.00 | 2083.84 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 5.53 | 17.50 | 10.50 | 18.08 | 22.75 |
| 00142-82-5 | n-heptane | 0.81 | 119.63 | 130.94 | 119.04 | 142.25 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 12.25 | 13.41 | 12.25 | 14.58 |
| 14686-13-6 | trans-2-heptene | 5.53 | 0.00 | 9.91 | 0.00 | 10.50 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 20.41 | 23.91 | 19.83 | 25.66 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0.00 | 9.91 | 0.00 | 10.50 |
| 00108-87-2 | methylcyclohexane | 1.85 | 46.07 | 50.74 | 45.49 | 54.82 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 10.69 | 11.87 | 10.09 | 12.47 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 11.08 | 12.25 | 11.66 | 13.41 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 100.93 | 108.64 | 101.52 | 122.30 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 112.21 | 120.52 | 112.80 | 134.77 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 8.75 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 327.72 | 351.46 | 327.72 | 397.77 |
| 00108-88-3 | toluene | 2.73 | 859.24 | 908.50 | 908.50 | 1094.58 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 86.68 | 92.62 | 89.05 | 107.46 |
| 00592-27-8 | 2-methylheptane | 0.96 | 40.37 | 43.93 | 43.93 | 52.84 |
| 00589-53-7 | 4-methylheptane | 1.20 | 21.37 | 22.56 | 22.56 | 27.31 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 61.15 | 65.90 | 65.31 | 78.96 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 55.70 | 60.44 | 59.25 | 73.47 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 21.37 | 23.75 | 24.93 | 30.28 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 8.89 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 11.26 |
| 00100-41-4 | ethylbenzene | 2.70 | 91.04 | 95.46 | 108.15 | 134.08 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 216.30 | 225.13 | 249.96 | 317.27 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 10.67 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 9.48 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 70.08 | 71.73 | 77.25 | 99.87 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 10.63 | 10.63 | 11.88 | 13.75 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 14.79 | 14.79 | 14.79 | 20.71 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 8.91 | 10.09 | 10.69 | 13.65 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 12.77 | 12.77 | 11.66 | 16.66 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 38.87 | 38.31 | 35.54 | 47.75 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 18.88 | 18.88 | 16.66 | 22.21 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 125.49 | 211.00 | 138.26 | 196.57 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 14.99 | 14.99 | 11.11 | 15.55 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 58.86 | 59.41 | 46.64 | 63.30 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 10.55 | 11.11 | 0.00 | 10.55 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 8.93 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 10.05 | 11.16 | 0.00 | 8.93 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 10.05 | 12.28 | 0.00 | 8.37 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 10.60 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 8.43 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 20204.74 | 20922.39 | 17620.74 | 20084.26 |
| NMHC-ST | NMHC Subtotal | | 51111.58 | 51900.45 | 42310.61 | 46719.59 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

| | | MIR | T10-PH2-1 WT% | T10-PH2-2 WT% | T10-PH2-3 WT% | T10-PH2-4 WT% |
|------------|---------------------|-------|------------------|------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 0.16 | 0.16 | 0.22 | 0.20 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 0.85 | 0.84 | 0.86 | 0.82 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 22.58 | 22.23 | 21.85 | 21.21 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 0.04 | 0.04 | 0.04 | 0.04 |
| 00106-98-9 | 1-butene | 8.91 | 0.02 | 0.02 | 0.00 | 0.02 |
| 00115-11-7 | 2-methylpropene | 5.31 | 0.03 | 0.03 | 0.02 | 0.02 |
| 00590-18-1 | cis-2-butene | 9.94 | 0.04 | 0.03 | 0.03 | 0.03 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 0.20 | 0.20 | 0.20 | 0.20 |
| 00078-78-4 | 2-methylbutane | 1.38 | 31.93 | 31.56 | 30.77 | 30.18 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1.03 | 1.01 | 0.96 | 0.95 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1.51 | 1.49 | 1.42 | 1.40 |
| 00109-67-1 | 1-pentene | 6.22 | 0.51 | 0.49 | 0.47 | 0.46 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1.03 | 1.02 | 0.99 | 0.97 |
| 00627-20-3 | cis-2-pentene | 8.8 | 0.55 | 0.55 | 0.53 | 0.52 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 60.47 | 59.69 | 58.35 | 57.01 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

| | | MIR | T10-PH2-1 WT% | T10-PH2-2 WT% | T10-PH2-3 WT% | T10-PH2-4 WT% |
|------------|--------------------------|------|------------------|------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 0.14 | 0.14 | 0.14 | 0.13 |
| 00109-66-0 | n-pentane | 1.04 | 3.12 | 3.09 | 2.92 | 2.89 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 0.03 | 0.03 | 0.03 | 0.03 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 0.02 | 0.02 | 0.00 | 0.00 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 0.86 | 0.85 | 0.84 | 0.83 |
| 00142-29-0 | cyclopentene | 7.66 | 0.12 | 0.12 | 0.11 | 0.11 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 0.09 | 0.09 | 0.09 | 0.09 |
| 00287-92-3 | cyclopentane | 2.38 | 0.08 | 0.08 | 0.08 | 0.08 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1.87 | 1.88 | 1.86 | 1.85 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 12.52 | 12.53 | 12.56 | 12.49 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 3.46 | 3.46 | 3.46 | 3.44 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 0.11 | 0.11 | 0.12 | 0.11 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1.54 | 1.54 | 1.55 | 1.55 |
| 00592-41-6 | 1-hexene | 4.42 | 0.05 | 0.05 | 0.05 | 0.05 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 0.12 | 0.12 | 0.12 | 0.12 |
| 00110-54-3 | n-hexane | 0.98 | 0.55 | 0.55 | 0.56 | 0.56 |
| 13269-52-8 | trans-3-hexene | 6.69 | 0.08 | 0.08 | 0.08 | 0.09 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 0.16 | 0.16 | 0.16 | 0.16 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 0.14 | 0.14 | 0.14 | 0.14 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 0.11 | 0.11 | 0.11 | 0.11 |
| 07688-21-3 | cis-2-hexene | 6.69 | 0.07 | 0.07 | 0.07 | 0.07 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 0.32 | 0.32 | 0.33 | 0.34 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 1.43 | 1.46 | 1.53 | 1.57 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 0.48 | 0.48 | 0.51 | 0.53 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 0.03 | 0.04 | 0.04 | 0.04 |
| 00110-82-7 | cyclohexane | 1.28 | 0.04 | 0.05 | 0.05 | 0.05 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 0.02 | 0.03 | 0.02 | 0.03 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 2.47 | 2.55 | 2.74 | 2.87 |
| 00110-83-8 | cyclohexene | 5.67 | 0.02 | 0.02 | 0.00 | 0.02 |
| 00589-34-4 | 3-methylhexane | 1.40 | 0.42 | 0.45 | 0.48 | 0.51 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 0.05 | 0.06 | 0.06 | 0.07 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 0.05 | 0.06 | 0.05 | 0.06 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 0.09 | 0.10 | 0.10 | 0.11 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 3.71 | 3.85 | 4.22 | 4.46 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 5.53 | 0.03 | 0.02 | 0.04 | 0.05 |
| 00142-82-5 | n-heptane | 0.81 | 0.23 | 0.25 | 0.28 | 0.30 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 0.02 | 0.03 | 0.03 | 0.03 |
| 14686-13-6 | trans-2-heptene | 5.53 | 0.00 | 0.02 | 0.00 | 0.02 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 0.04 | 0.05 | 0.05 | 0.05 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0.00 | 0.02 | 0.00 | 0.02 |
| 00108-87-2 | methylcyclohexane | 1.85 | 0.09 | 0.10 | 0.11 | 0.12 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 0.02 | 0.02 | 0.02 | 0.03 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 0.02 | 0.02 | 0.03 | 0.03 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 0.20 | 0.21 | 0.24 | 0.26 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 0.22 | 0.23 | 0.27 | 0.29 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.02 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 0.64 | 0.68 | 0.77 | 0.85 |
| 00108-88-3 | toluene | 2.73 | 1.68 | 1.75 | 2.15 | 2.34 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 0.17 | 0.18 | 0.21 | 0.23 |
| 00592-27-8 | 2-methylheptane | 0.96 | 0.08 | 0.08 | 0.10 | 0.11 |
| 00589-53-7 | 4-methylheptane | 1.20 | 0.04 | 0.04 | 0.05 | 0.06 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 0.12 | 0.13 | 0.15 | 0.17 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 0.11 | 0.12 | 0.14 | 0.16 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 0.04 | 0.05 | 0.06 | 0.06 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.02 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.02 |
| 00100-41-4 | ethylbenzene | 2.70 | 0.18 | 0.18 | 0.26 | 0.29 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|--------|--------|--------|--------|
| 00108-38-3 | m- & p-xylene | 7.64 | 0.42 | 0.43 | 0.59 | 0.68 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.02 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.02 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 0.14 | 0.14 | 0.18 | 0.21 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.02 | 0.02 | 0.03 | 0.03 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.03 | 0.03 | 0.03 | 0.04 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.02 | 0.02 | 0.03 | 0.03 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 0.02 | 0.02 | 0.03 | 0.04 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 0.08 | 0.07 | 0.08 | 0.10 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 0.04 | 0.04 | 0.04 | 0.05 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 0.25 | 0.41 | 0.33 | 0.42 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0.03 | 0.03 | 0.03 | 0.03 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 0.12 | 0.11 | 0.11 | 0.14 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.02 | 0.02 | 0.00 | 0.02 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 0.02 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.02 | 0.02 | 0.00 | 0.02 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.02 | 0.02 | 0.00 | 0.02 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.02 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.02 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 39.53 | 40.31 | 41.65 | 42.99 |
| NMHC-ST | NMHC Subtotal | | 100.00 | 100.00 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

| | | MIR | TR-RFA-1 PPBC | TR-RFA-2 PPBC | TR-RFA-3 PPBC | TR-RFA-4 PPBC |
|------------|---------------------|-------|------------------|------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.25 | 0 | 0 | 0 | 0 |
| 00074-85-1 | ethene | 7.29 | 0 | 0 | 0 | 0 |
| 00074-98-6 | propane | 0.48 | 72 | 61 | 51 | 45 |
| 00115-07-1 | propene | 9.4 | 0 | 0 | 0 | 0 |
| 00075-28-5 | methylpropane | 1.21 | 1090 | 1060 | 901 | 910 |
| 00074-86-2 | ethyne | 0.5 | 0 | 0 | 0 | 0 |
| 00106-97-8 | n-butane | 1.02 | 40400 | 39300 | 32600 | 32900 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 9.94 | 200 | 195 | 168 | 169 |
| 00106-98-9 | 1-butene | 8.91 | 39 | 195 | 34 | 34 |
| 00115-11-7 | 2-methylpropene | 5.31 | 38 | 37 | 35 | 35 |
| 00590-18-1 | cis-2-butene | 9.94 | 250 | 244 | 209 | 210 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 314 | 305 | 257 | 261 |
| 00078-78-4 | 2-methylbutane | 1.38 | 36500 | 35500 | 29200 | 29400 |
| 00074-99-7 | 1-propyne | 4.1 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1860 | 1810 | 1550 | 1540 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 2500 | 2430 | 2070 | 2050 |
| 00109-67-1 | 1-pentene | 6.22 | 736 | 716 | 622 | 621 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1400 | 1370 | 1160 | 1150 |
| 00627-20-3 | cis-2-pentene | 8.8 | 1010 | 982 | 847 | 840 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0 | 0 | 0 | 0 |
| LE-ST | Light End Subtotal | | 86409.00 | 84205.00 | 69704.00 | 70165.00 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

| | | MIR | PHASE 1 TR-RFA-1 PPBC | TR-RFA-2 PPBC | TR-RFA-3 PPBC | TR-RFA-4 PPBC |
|------------|--------------------------|------|-----------------------------|------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 214 | 208 | 126 | 130 |
| 00109-66-0 | n-pentane | 1.04 | 7700 | 7500 | 4160 | 4180 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 29 | 27 | 21 | 22 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 22 | 22 | 0 | 0 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 26 | 27 | 24 | 22 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 999 | 969 | 583 | 583 |
| 00142-29-0 | cyclopentene | 7.66 | 265 | 258 | 176 | 172 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 162 | 157 | 106 | 104 |
| 00287-92-3 | cyclopentane | 2.38 | 278 | 269 | 178 | 176 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1720 | 1670 | 1030 | 1020 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 75 | 83 | 0 | 0 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 251 | 184 | 327 | 302 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 1.53 | 5370 | 5230 | 3150 | 3110 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 176 | 168 | 115 | 114 |
| 00096-14-0 | 3-methylpentane | 1.52 | 2760 | 2680 | 1690 | 1660 |
| 00592-41-6 | 1-hexene | 4.42 | 115 | 113 | 81 | 79 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 236 | 229 | 165 | 161 |
| 00110-54-3 | n-hexane | 0.98 | 1800 | 1760 | 1180 | 1150 |
| 13269-52-8 | trans-3-hexene | 6.69 | 199 | 197 | 150 | 145 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 6.69 | 374 | 366 | 211 | 205 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 304 | 297 | 59 | 57 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0 | 0 | 223 | 215 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 230 | 228 | 168 | 164 |
| 07688-21-3 | cis-2-hexene | 6.69 | 152 | 151 | 120 | 114 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 2.82 | 792 | 768 | 554 | 532 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 606 | 582 | 428 | 409 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0 | 0 | 0 | 0 |
| 00071-43-2 | benzene | 0.42 | 1520 | 1450 | 1300 | 1230 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 17 | 16 | 15 | 15 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 45 | 44 | 36 | 33 |
| 00110-82-7 | cyclohexane | 1.28 | 110 | 107 | 93 | 87 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0 | 18 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 40 | 39 | 36 | 33 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1300 | 1240 | 1000 | 920 |
| 00110-83-8 | cyclohexene | 5.67 | 30 | 30 | 28 | 26 |
| 00589-34-4 | 3-methylhexane | 1.40 | 499 | 481 | 413 | 379 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 106 | 102 | 90 | 83 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 86 | 82 | 75 | 68 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 122 | 117 | 109 | 99 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 825 | 782 | 693 | 610 |
| 00592-76-7 | 1-heptene | 3.48 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 16 | 15 | 20 | 19 |
| 14686-14-7 | trans-3-heptene | 5.53 | 77 | 67 | 87 | 81 |
| 00142-82-5 | n-heptane | 0.81 | 268 | 263 | 252 | 225 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0 | 0 | 0 | 0 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 47 | 46 | 70 | 64 |
| 14686-13-6 | trans-2-heptene | 5.53 | 34 | 33 | 35 | 32 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 24 | 23 | 57 | 52 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 33 | 33 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 5.53 | 30 | 29 | 31 | 29 |
| 00108-87-2 | methylcyclohexane | 1.85 | 154 | 149 | 144 | 130 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 17 | 18 | 19 | 17 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 34 | 33 | 35 | 31 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 77 | 72 | 77 | 66 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 84 | 79 | 93 | 79 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 17 | 17 | 19 | 17 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0 | 0 | 19 | 18 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 161 | 149 | 175 | 146 |
| 00108-88-3 | toluene | 2.73 | 2140 | 1990 | 2180 | 2180 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 71 | 66 | 78 | 65 |
| 00592-27-8 | 2-methylheptane | 0.96 | 66 | 60 | 84 | 69 |
| 00589-53-7 | 4-methylheptane | 1.20 | 39 | 36 | 34 | 28 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 00589-81-1 | 3-methylheptane | 0.99 | 93 | 87 | 89 | 72 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 34 | 27 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 32 | 30 | 44 | 34 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 00111-66-0 | 1-octene | 2.69 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 5.29 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0.61 | 38 | 35 | 56 | 47 |
| 13389-42-9 | trans-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 15 | 0 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0 | 0 | 20 | 16 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0 | 0 | 15 | 0 |
| 00100-41-4 | ethylbenzene | 2.70 | 208 | 193 | 254 | 277 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|-------------------------------------|-------|-----------|-----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 463 | 419 | 566 | 628 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0 | 0 | 28 | 0 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0 | 0 | 0 | 0 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0 | 0 | 17 | 0 |
| 00100-42-5 | styrene | 2.22 | 0 | 0 | 0 | 0 |
| 00095-47-6 | o-xylene | 6.46 | 137 | 124 | 175 | 196 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0 | 0 | 0 | 0 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0 | 0 | 0 | 0 |
| 00124-11-8 | 1-nonene | 2.23 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 0.54 | 0 | 0 | 0 | 0 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00103-65-1 | n-propylbenzene | 2.12 | 15 | 0 | 22 | 26 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 42 | 38 | 61 | 71 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 19 | 17 | 26 | 30 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 136 | 49 | 28 | 34 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0 | 0 | 0 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0 | 0 | 17 | 21 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 47 | 40 | 69 | 79 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 0.47 | 0 | 0 | 0 | 0 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0 | 0 | 0 | 0 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0 | 0 | 0 | 0 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 00824-22-6 | 4-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 1.18 | 0 | 0 | 15 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0 | 0 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0.38 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | | 34174.00 | 32861.00 | 23973.00 | 23315.00 |
| NMHC-ST | NMHC Subtotal | | 120583.00 | 117066.00 | 93677.00 | 93480.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

| | | MIR | TR-RFA-1 UG/M3 | TR-RFA-2 UG/M3 | TR-RFA-3 UG/M3 | TR-RFA-4 UG/M3 |
|--------------|---------------------------|-------|-------------------|-------------------|-------------------|-------------------|
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 44.00 | 37.28 | 31.17 | 27.50 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 658.54 | 640.41 | 544.35 | 549.79 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 24408.27 | 23743.69 | 19695.78 | 19877.03 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 116.64 | 113.73 | 97.98 | 98.56 |
| 00106-98-9 | 1-butene | 8.91 | 22.75 | 113.73 | 19.83 | 19.83 |
| 00115-11-7 | 2-methylpropene | 5.31 | 22.16 | 21.58 | 20.41 | 20.41 |
| 00590-18-1 | cis-2-butene | 9.94 | 145.80 | 142.30 | 121.89 | 122.47 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 188.39 | 182.99 | 154.19 | 156.59 |
| 00078-78-4 | 2-methylbutane | 1.38 | 21899.06 | 21299.08 | 17519.24 | 17639.24 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1084.77 | 1055.61 | 903.98 | 898.14 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1458.03 | 1417.20 | 1207.25 | 1195.58 |
| 00109-67-1 | 1-pentene | 6.22 | 429.24 | 417.58 | 362.76 | 362.17 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 816.49 | 799.00 | 676.52 | 670.69 |
| 00627-20-3 | cis-2-pentene | 8.8 | 589.04 | 572.71 | 493.98 | 489.90 |
| 00689-97-4 | 1-butene-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 51883.19 | 50556.89 | 41849.33 | 42127.92 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

| | | MIR | TR-RFA-1 UG/M3 | TR-RFA-2 UG/M3 | TR-RFA-3 UG/M3 | TR-RFA-4 UG/M3 |
|------------|--------------------------|------|-------------------|-------------------|-------------------|-------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 124.81 | 121.31 | 73.48 | 75.82 |
| 00109-66-0 | n-pentane | 1.04 | 4619.80 | 4499.81 | 2495.89 | 2507.89 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 16.43 | 15.29 | 11.90 | 12.46 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 12.83 | 12.83 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 14.73 | 15.29 | 13.59 | 12.46 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 596.58 | 578.67 | 348.16 | 348.16 |
| 00142-29-0 | cyclopentene | 7.66 | 150.11 | 146.14 | 99.69 | 97.43 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 96.74 | 93.76 | 63.30 | 62.11 |
| 00287-92-3 | cyclopentane | 2.38 | 162.13 | 156.88 | 103.81 | 102.65 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1027.15 | 997.29 | 615.10 | 609.12 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 41.23 | 45.62 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 183.99 | 134.88 | 239.70 | 221.37 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 3206.86 | 3123.25 | 1881.12 | 1857.23 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 102.65 | 97.98 | 67.07 | 66.49 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1648.22 | 1600.44 | 1009.23 | 991.32 |
| 00592-41-6 | 1-hexene | 4.42 | 67.07 | 65.90 | 47.24 | 46.07 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 137.64 | 133.56 | 96.23 | 93.90 |
| 00110-54-3 | n-hexane | 0.98 | 1074.92 | 1051.04 | 704.67 | 686.76 |
| 13269-52-8 | trans-3-hexene | 6.69 | 116.06 | 114.89 | 87.48 | 84.57 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 218.12 | 213.46 | 123.06 | 119.56 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 177.30 | 173.21 | 34.41 | 33.24 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 130.06 | 125.39 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 130.93 | 129.79 | 95.63 | 93.36 |
| 07688-21-3 | cis-2-hexene | 6.69 | 88.65 | 88.06 | 69.99 | 66.49 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 461.90 | 447.91 | 323.10 | 310.27 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 360.68 | 346.40 | 254.74 | 243.43 |

| | | | | | | |
|-------------|--------------------------------------|------|---------|---------|---------|---------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| -02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 822.78 | 784.89 | 703.69 | 665.80 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 10.12 | 9.52 | 8.93 | 8.93 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 26.24 | 25.66 | 21.00 | 19.25 |
| 00110-82-7 | cyclohexane | 1.28 | 64.15 | 62.40 | 54.24 | 50.74 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 10.50 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 23.33 | 22.75 | 21.00 | 19.25 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 773.74 | 738.03 | 595.18 | 547.57 |
| 00110-83-8 | cyclohexene | 5.67 | 17.08 | 17.08 | 15.94 | 14.80 |
| 00589-34-4 | 3-methylhexane | 1.40 | 297.00 | 286.28 | 245.81 | 225.57 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 61.82 | 59.49 | 52.49 | 48.41 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 50.16 | 47.82 | 43.74 | 39.66 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 72.61 | 69.64 | 64.88 | 58.92 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 489.79 | 464.26 | 411.43 | 362.15 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 9.33 | 8.75 | 11.66 | 11.08 |
| 14686-14-7 | trans-3-heptene | 5.53 | 44.91 | 39.08 | 50.74 | 47.24 |
| 00142-82-5 | n-heptane | 0.81 | 159.51 | 156.53 | 149.99 | 133.92 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 27.41 | 26.83 | 40.82 | 37.33 |
| 14686-13-6 | trans-2-heptene | 5.53 | 19.83 | 19.25 | 20.41 | 18.66 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 14.00 | 13.41 | 33.24 | 30.33 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 19.25 | 19.25 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 17.50 | 16.91 | 18.08 | 16.91 |
| 00108-87-2 | methylcyclohexane | 1.85 | 89.81 | 86.90 | 83.98 | 75.82 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 10.09 | 10.69 | 11.28 | 10.09 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 19.83 | 19.25 | 20.41 | 18.08 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 45.71 | 42.75 | 45.71 | 39.18 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 49.87 | 46.90 | 55.21 | 46.90 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 9.91 | 9.91 | 11.08 | 9.91 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.00 | 0.00 | 11.08 | 10.50 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 95.58 | 88.46 | 103.90 | 86.68 |
| 00108-88-3 | toluene | 2.73 | 1171.20 | 1089.10 | 1193.09 | 1193.09 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 42.15 | 39.18 | 46.31 | 38.59 |
| 00592-27-8 | 2-methylheptane | 0.96 | 39.18 | 35.62 | 49.87 | 40.96 |
| 00589-53-7 | 4-methylheptane | 1.20 | 23.15 | 21.37 | 20.19 | 16.62 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 55.21 | 51.65 | 52.84 | 42.75 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 19.83 | 15.75 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 18.96 | 17.78 | 26.07 | 20.15 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 22.56 | 20.78 | 33.25 | 27.90 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 8.75 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.00 | 0.00 | 11.85 | 9.48 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.00 | 0.00 | 8.89 | 0.00 |
| 00100-41-4 | ethylbenzene | 2.70 | 114.77 | 106.49 | 140.15 | 152.84 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 255.47 | 231.20 | 312.31 | 346.52 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.00 | 16.59 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.00 | 0.00 | 10.07 | 0.00 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 75.59 | 68.42 | 96.56 | 108.15 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 8.33 | 0.00 | 12.22 | 14.44 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 23.32 | 21.10 | 33.87 | 39.42 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 10.55 | 9.44 | 14.44 | 16.66 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 75.52 | 27.21 | 15.55 | 18.88 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0.00 | 0.00 | 9.44 | 11.66 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 26.10 | 22.21 | 38.31 | 43.87 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 7.99 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 20140.95 | 19368.39 | 14073.00 | 13678.92 |
| NMHC-ST | NMHC Subtotal | | 72024.14 | 69925.28 | 55922.33 | 55806.84 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

| | | MIR | TR-RFA-1 | TR-RFA-2 | TR-RFA-3 | TR-RFA-4 |
|--------------|---------------------------|-------|--------------|--------------|--------------|--------------|
| | | | WT% | WT% | WT% | WT% |
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 0.06 | 0.05 | 0.06 | 0.05 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 0.91 | 0.92 | 0.97 | 0.99 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 33.89 | 33.96 | 35.22 | 35.62 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 0.16 | 0.16 | 0.18 | 0.18 |
| 00106-98-9 | 1-butene | 8.91 | 0.03 | 0.16 | 0.04 | 0.04 |
| 00115-11-7 | 2-methylpropene | 5.31 | 0.03 | 0.03 | 0.04 | 0.04 |
| 00590-18-1 | cis-2-butene | 9.94 | 0.20 | 0.20 | 0.22 | 0.22 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 0.26 | 0.26 | 0.28 | 0.28 |
| 00078-78-4 | 2-methylbutane | 1.38 | 30.41 | 30.46 | 31.33 | 31.61 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1.51 | 1.51 | 1.62 | 1.61 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 2.02 | 2.03 | 2.16 | 2.14 |
| 00109-67-1 | 1-pentene | 6.22 | 0.60 | 0.60 | 0.65 | 0.65 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1.13 | 1.14 | 1.21 | 1.20 |
| 00627-20-3 | cis-2-pentene | 8.8 | 0.82 | 0.82 | 0.88 | 0.88 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 72.04 | 72.30 | 74.83 | 75.49 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

| | | MIR | TR-RFA-1 | TR-RFA-2 | TR-RFA-3 | TR-RFA-4 |
|------------|--------------------------|------|----------|----------|----------|----------|
| | | | WT% | WT% | WT% | WT% |
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 0.17 | 0.17 | 0.13 | 0.14 |
| 00109-66-0 | n-pentane | 1.04 | 6.41 | 6.44 | 4.46 | 4.49 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.02 | 0.02 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 0.83 | 0.83 | 0.62 | 0.62 |
| 00142-29-0 | cyclopentene | 7.66 | 0.21 | 0.21 | 0.18 | 0.17 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 0.13 | 0.13 | 0.11 | 0.11 |
| 00287-92-3 | cyclopentane | 2.38 | 0.23 | 0.22 | 0.19 | 0.18 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1.43 | 1.43 | 1.10 | 1.09 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.06 | 0.07 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 0.26 | 0.19 | 0.43 | 0.40 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 4.45 | 4.47 | 3.36 | 3.33 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 0.14 | 0.14 | 0.12 | 0.12 |
| 00096-14-0 | 3-methylpentane | 1.52 | 2.29 | 2.29 | 1.80 | 1.78 |
| 00592-41-6 | 1-hexene | 4.42 | 0.09 | 0.09 | 0.08 | 0.08 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 0.19 | 0.19 | 0.17 | 0.17 |
| 00110-54-3 | n-hexane | 0.98 | 1.49 | 1.50 | 1.26 | 1.23 |
| 13269-52-8 | trans-3-hexene | 6.69 | 0.16 | 0.16 | 0.16 | 0.15 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 0.30 | 0.31 | 0.22 | 0.21 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 0.25 | 0.25 | 0.06 | 0.06 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 0.23 | 0.22 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 0.18 | 0.19 | 0.17 | 0.17 |
| 07688-21-3 | cis-2-hexene | 6.69 | 0.12 | 0.13 | 0.13 | 0.12 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 0.64 | 0.64 | 0.58 | 0.56 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 0.50 | 0.50 | 0.46 | 0.44 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 1.14 | 1.12 | 1.26 | 1.19 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.01 | 0.01 | 0.02 | 0.02 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 0.04 | 0.04 | 0.04 | 0.03 |
| 00110-82-7 | cyclohexane | 1.28 | 0.09 | 0.09 | 0.10 | 0.09 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.02 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 0.03 | 0.03 | 0.04 | 0.03 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1.07 | 1.06 | 1.06 | 0.98 |
| 00110-83-8 | cyclohexene | 5.67 | 0.02 | 0.02 | 0.03 | 0.03 |
| 00589-34-4 | 3-methylhexane | 1.40 | 0.41 | 0.41 | 0.44 | 0.40 |
| D1759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 0.09 | 0.09 | 0.09 | 0.09 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 0.07 | 0.07 | 0.08 | 0.07 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 0.10 | 0.10 | 0.12 | 0.11 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 0.68 | 0.66 | 0.74 | 0.65 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.01 | 0.01 | 0.02 | 0.02 |
| 14686-14-7 | trans-3-heptene | 5.53 | 0.06 | 0.06 | 0.09 | 0.08 |
| 00142-82-5 | n-heptane | 0.81 | 0.22 | 0.22 | 0.27 | 0.24 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 0.04 | 0.04 | 0.07 | 0.07 |
| 14686-13-5 | trans-2-heptene | 5.53 | 0.03 | 0.03 | 0.04 | 0.03 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 0.02 | 0.02 | 0.06 | 0.05 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.03 | 0.03 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0.02 | 0.02 | 0.03 | 0.03 |
| 00108-87-2 | methylcyclohexane | 1.85 | 0.12 | 0.12 | 0.15 | 0.14 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 0.01 | 0.02 | 0.02 | 0.02 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 0.03 | 0.03 | 0.04 | 0.03 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 0.06 | 0.06 | 0.08 | 0.07 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 0.07 | 0.07 | 0.10 | 0.08 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.01 | 0.01 | 0.02 | 0.02 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.00 | 0.00 | 0.02 | 0.02 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 0.13 | 0.13 | 0.19 | 0.16 |
| 00108-88-3 | toluene | 2.73 | 1.63 | 1.56 | 2.13 | 2.14 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 0.06 | 0.06 | 0.08 | 0.07 |
| 00592-27-8 | 2-methylheptane | 0.96 | 0.05 | 0.05 | 0.09 | 0.07 |
| 00589-53-7 | 4-methylheptane | 1.20 | 0.03 | 0.03 | 0.04 | 0.03 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 0.08 | 0.07 | 0.09 | 0.08 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.04 | 0.03 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 0.03 | 0.03 | 0.05 | 0.04 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 0.03 | 0.03 | 0.06 | 0.05 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.02 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.02 | 0.02 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.02 | 0.00 |
| 00100-41-4 | ethylbenzene | 2.70 | 0.16 | 0.15 | 0.25 | 0.27 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|--------|--------|--------|--------|
| 00108-38-3 | m- & p-xylene | 7.64 | 0.35 | 0.33 | 0.56 | 0.62 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.00 | 0.03 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.00 | 0.00 | 0.02 | 0.00 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 0.10 | 0.10 | 0.17 | 0.19 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 0.01 | 0.00 | 0.02 | 0.03 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 0.03 | 0.03 | 0.06 | 0.07 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 0.01 | 0.01 | 0.03 | 0.03 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 0.10 | 0.04 | 0.03 | 0.03 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0.00 | 0.00 | 0.02 | 0.02 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 0.04 | 0.03 | 0.07 | 0.08 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.01 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 27.96 | 27.70 | 25.17 | 24.51 |
| NMHC-ST | NMHC Subtotal | | 100.00 | 100.00 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | T10-RFA-1 PPBC | T10-RFA-2 PPBC | T10-RFA-3 PPBC | T10-RFA-4 PPBC |
|------------|---------------------|-------|-------------------|-------------------|-------------------|-------------------|
| 00074-84-0 | ethane | 0.25 | 0 | 0 | 0 | 0 |
| 00074-85-1 | ethene | 7.29 | 0 | 0 | 0 | 0 |
| 00074-98-6 | propane | 0.48 | 84 | 359 | 241 | 63 |
| 00115-07-1 | propene | 9.4 | 0 | 0 | 0 | 0 |
| 00075-28-5 | methylpropane | 1.21 | 1160 | 1190 | 1240 | 1220 |
| 00074-86-2 | ethyne | 0.5 | 0 | 0 | 0 | 0 |
| 00106-97-8 | n-butane | 1.02 | 42900 | 42300 | 39500 | 38500 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 9.94 | 196 | 189 | 181 | 174 |
| 00106-98-9 | 1-butene | 8.91 | 40 | 40 | 39 | 39 |
| 00115-11-7 | 2-methylpropene | 5.31 | 40 | 39 | 43 | 41 |
| 00590-18-1 | cis-2-butene | 9.94 | 244 | 235 | 228 | 219 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 355 | 362 | 376 | 366 |
| 00078-78-4 | 2-methylbutane | 1.38 | 42000 | 40600 | 35400 | 34100 |
| 00074-99-7 | 1-propyne | 4.1 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1910 | 1800 | 1510 | 1430 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 2610 | 2460 | 2070 | 1960 |
| 00109-67-1 | 1-pentene | 6.22 | 788 | 746 | 650 | 618 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1530 | 1450 | 1230 | 1180 |
| 00627-20-3 | cis-2-pentene | 8.8 | 1030 | 975 | 831 | 786 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0 | 0 | 0 | 0 |

| | | | | | |
|-------|--------------------|----------|----------|----------|----------|
| LE-ST | Light End Subtotal | 94887.00 | 92745.00 | 83539.00 | 80696.00 |
|-------|--------------------|----------|----------|----------|----------|

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | PHASE 1 T10-RFA-1 PPBC | T10-RFA-2 PPBC | T10-RFA-3 PPBC | T10-RFA-4 PPBC |
|------------|--------------------------|------|------------------------------|-------------------|-------------------|-------------------|
| 00460-12-8 | 1,3-butadiene | 9.24 | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 233 | 227 | 157 | 153 |
| 00109-66-0 | n-pentane | 1.04 | 7940 | 7590 | 4680 | 4500 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 32 | 31 | 21 | 20 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 25 | 24 | 16 | 15 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 27 | 25 | 20 | 17 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 1190 | 1160 | 786 | 760 |
| 00142-29-0 | cyclopentene | 7.66 | 255 | 240 | 168 | 158 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 174 | 170 | 124 | 117 |
| 00287-92-3 | cyclopentane | 2.38 | 269 | 257 | 188 | 175 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 2100 | 2050 | 1320 | 1260 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0 | 0 | 0 | 0 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 2450 | 2380 | 526 | 500 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 1.53 | 6000 | 5890 | 3810 | 3590 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 201 | 196 | 134 | 122 |
| 00096-14-0 | 3-methylpentane | 1.52 | 3030 | 2990 | 2060 | 1930 |
| 00592-41-6 | 1-hexene | 4.42 | 115 | 115 | 88 | 82 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 247 | 245 | 184 | 172 |
| 00110-54-3 | n-hexane | 0.98 | 1820 | 1850 | 1350 | 1240 |
| 13269-52-8 | trans-3-hexene | 6.69 | 198 | 199 | 159 | 146 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 6.69 | 371 | 376 | 223 | 205 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 307 | 312 | 61 | 57 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0 | 0 | 245 | 223 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 238 | 241 | 188 | 173 |
| 07688-21-3 | cis-2-hexene | 6.69 | 151 | 156 | 124 | 112 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 2.82 | 818 | 844 | 636 | 585 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 906 | 951 | 578 | 535 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0 | 0 | 0 | 0 |
| 00071-43-2 | benzene | 0.42 | 1260 | 1340 | 1100 | 983 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 17 | 21 | 17 | 15 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 53 | 61 | 48 | 44 |
| 00110-82-7 | cyclohexane | 1.28 | 115 | 126 | 107 | 96 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 23 | 27 | 16 | 15 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 49 | 55 | 45 | 41 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1890 | 2100 | 1360 | 1240 |
| 00110-83-8 | cyclohexene | 5.67 | 32 | 36 | 31 | 25 |
| 00589-34-4 | 3-methylhexane | 1.40 | 634 | 727 | 556 | 506 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 122 | 141 | 114 | 103 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 100 | 117 | 96 | 87 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 151 | 176 | 143 | 130 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 1630 | 1860 | 1050 | 961 |
| 00592-76-7 | 1-heptene | 3.48 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 19 | 26 | 28 | 24 |
| 14686-14-7 | trans-3-heptene | 5.53 | 84 | 102 | 85 | 78 |
| 00142-82-5 | n-heptane | 0.81 | 327 | 406 | 323 | 293 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0 | 0 | 0 | 0 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 52 | 65 | 87 | 80 |
| 14686-13-6 | trans-2-heptene | 5.53 | 38 | 48 | 45 | 39 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 16 | 20 | 19 | 17 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 26 | 30 | 71 | 66 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 42 | 54 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 5.53 | 36 | 45 | 40 | 37 |
| 00108-87-2 | methylcyclohexane | 1.85 | 193 | 232 | 189 | 172 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 27 | 33 | 28 | 26 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 43 | 54 | 45 | 41 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 128 | 160 | 110 | 102 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 142 | 178 | 135 | 125 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 26 | 33 | 29 | 26 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 17 | 30 | 29 | 26 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 301 | 383 | 252 | 233 |
| 00108-88-3 | toluene | 2.73 | 2250 | 2860 | 2340 | 2120 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 111 | 148 | 117 | 104 |
| 00592-27-8 | 2-methylheptane | 0.96 | 104 | 145 | 123 | 113 |
| 00589-53-7 | 4-methylheptane | 1.20 | 67 | 92 | 49 | 46 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 15 | 21 | 16 | 15 |
| 00589-81-1 | 3-methylheptane | 0.99 | 151 | 208 | 129 | 120 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 48 | 46 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0 | 0 | 15 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 63 | 84 | 69 | 64 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 19 | 18 | 17 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 16 | 0 | 0 |
| 00111-66-0 | 1-octene | 2.69 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 19 | 26 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 5.29 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0.61 | 62 | 86 | 81 | 76 |
| 13389-42-9 | trans-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0 | 0 | 24 | 22 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 21 | 27 | 28 | 28 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 17 | 28 | 22 | 22 |
| 00100-41-4 | ethylbenzene | 2.70 | 288 | 379 | 363 | 345 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|-------------------------------------|-------|-----------|-----------|-----------|-----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 707 | 902 | 865 | 819 |
| 02216-34-4 | 4-methyloctane | 1.14 | 21 | 28 | 40 | 0 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0 | 0 | 0 | 23 |
| 02216-33-3 | 3-methyloctane | 1.14 | 18 | 23 | 26 | 26 |
| 00100-42-5 | styrene | 2.22 | 0 | 0 | 0 | 0 |
| 00095-47-6 | o-xylene | 6.46 | 244 | 299 | 291 | 278 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0 | 0 | 0 | 0 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0 | 15 | 15 | 19 |
| 00124-11-8 | 1-nonene | 2.23 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 0.54 | 0 | 18 | 19 | 18 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0 | 0 | 0 | 0 |
| 00103-65-1 | n-propylbenzene | 2.12 | 41 | 44 | 45 | 42 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 139 | 136 | 137 | 130 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 63 | 61 | 57 | 54 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 254 | 128 | 69 | 65 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0 | 0 | 0 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 50 | 45 | 42 | 40 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 240 | 189 | 185 | 171 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 0.47 | 0 | 0 | 20 | 0 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 55 | 37 | 37 | 34 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 26 | 19 | 19 | 17 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 41 | 23 | 23 | 21 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 31 | 17 | 17 | 15 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 54 | 27 | 26 | 24 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0 | 0 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 40 | 19 | 16 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 39 | 19 | 15 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 73 | 36 | 32 | 29 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 16 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 18 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 44 | 20 | 18 | 15 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 63 | 29 | 25 | 22 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 1.06 | 49 | 19 | 16 | 0 |
| 00824-22-6 | 4-methylindan | 1.06 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 16 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 1.06 | 44 | 21 | 19 | 15 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 36 | 17 | 16 | 0 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 21 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 28 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 1.18 | 20 | 0 | 18 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 37 | 18 | 15 | 0 |
| 00112-40-3 | n-dodecane | 0.38 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | | 42386.00 | 43553.00 | 29609.00 | 27493.00 |
| NMHC-ST | NMHC Subtotal | | 137273.00 | 136298.00 | 113148.00 | 108189.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | T10-RFA-1 UG/M3 | T10-RFA-2 UG/M3 | T10-RFA-3 UG/M3 | T10-RFA-4 UG/M3 |
|------------|---------------------|-------|--------------------|--------------------|--------------------|--------------------|
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 51.34 | 219.40 | 147.29 | 38.50 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 700.83 | 718.96 | 749.16 | 737.08 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 25918.68 | 25556.18 | 23864.52 | 23260.35 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 114.31 | 110.23 | 105.56 | 101.48 |
| 00106-98-9 | 1-butene | 8.91 | 23.33 | 23.33 | 22.75 | 22.75 |
| 00115-11-7 | 2-methylpropene | 5.31 | 23.33 | 22.75 | 25.08 | 23.91 |
| 00590-18-1 | cis-2-butene | 9.94 | 142.30 | 137.05 | 132.97 | 127.72 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 212.99 | 217.19 | 225.59 | 219.59 |
| 00078-78-4 | 2-methylbutane | 1.38 | 25198.91 | 24358.95 | 21239.08 | 20459.12 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1113.93 | 1049.78 | 880.65 | 833.99 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1522.18 | 1434.70 | 1207.25 | 1143.09 |
| 00109-67-1 | 1-pentene | 6.22 | 459.57 | 435.08 | 379.09 | 360.42 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 892.31 | 845.66 | 717.35 | 688.19 |
| 00627-20-3 | cis-2-pentene | 8.8 | 600.71 | 568.63 | 484.65 | 458.40 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 56974.72 | 55697.87 | 50180.98 | 48474.60 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | T10-RFA-1 UG/M3 | T10-RFA-2 UG/M3 | T10-RFA-3 UG/M3 | T10-RFA-4 UG/M3 |
|------------|--------------------------|------|--------------------|--------------------|--------------------|--------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 135.89 | 132.39 | 91.56 | 89.23 |
| 00109-66-0 | n-pentane | 1.04 | 4763.79 | 4553.80 | 2807.88 | 2699.88 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 18.13 | 17.56 | 11.90 | 11.33 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 14.58 | 14.00 | 9.33 | 8.75 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 15.29 | 14.16 | 11.33 | 9.63 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 710.64 | 692.73 | 469.38 | 453.86 |
| 00142-29-0 | cyclopentene | 7.66 | 144.44 | 135.95 | 95.16 | 89.50 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 103.91 | 101.52 | 74.05 | 69.87 |
| 00287-92-3 | cyclopentane | 2.38 | 156.88 | 149.89 | 109.64 | 102.06 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1254.08 | 1224.22 | 788.28 | 752.45 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 1795.89 | 1744.58 | 385.57 | 366.51 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 3583.08 | 3517.39 | 2275.26 | 2143.88 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 117.23 | 114.31 | 78.15 | 71.15 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1809.46 | 1785.57 | 1230.19 | 1152.56 |
| 00592-41-6 | 1-hexene | 4.42 | 67.07 | 67.07 | 51.32 | 47.82 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 144.05 | 142.89 | 107.31 | 100.31 |
| 00110-54-3 | n-hexane | 0.98 | 1086.87 | 1104.78 | 806.19 | 740.50 |
| 13269-52-8 | trans-3-hexene | 6.69 | 115.48 | 116.06 | 92.73 | 85.15 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 216.37 | 219.29 | 130.06 | 119.56 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 179.05 | 181.96 | 35.58 | 33.24 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 142.89 | 130.06 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 135.48 | 137.19 | 107.02 | 98.48 |
| 07688-21-3 | cis-2-hexene | 6.69 | 88.06 | 90.98 | 72.32 | 65.32 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 477.07 | 492.23 | 370.92 | 341.18 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 539.24 | 566.02 | 344.02 | 318.42 |

| | | | | | | |
|------------|--------------------------------------|------|---------|---------|---------|---------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 682.04 | 725.34 | 595.43 | 532.10 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 10.12 | 12.50 | 10.12 | 8.93 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 30.91 | 35.58 | 27.99 | 25.66 |
| 00110-82-7 | cyclohexane | 1.28 | 67.07 | 73.48 | 62.40 | 55.99 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 13.41 | 15.75 | 9.33 | 8.75 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 28.58 | 32.08 | 26.24 | 23.91 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1124.90 | 1249.89 | 809.45 | 738.03 |
| 00110-83-8 | cyclohexene | 5.67 | 18.22 | 20.49 | 17.65 | 14.23 |
| 00589-34-4 | 3-methylhexane | 1.40 | 377.35 | 432.70 | 330.92 | 301.16 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 71.15 | 82.23 | 66.49 | 60.07 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 58.32 | 68.24 | 55.99 | 50.74 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 89.87 | 104.75 | 85.11 | 77.37 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 967.71 | 1104.26 | 623.37 | 570.53 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 11.08 | 15.16 | 16.33 | 14.00 |
| 14686-14-7 | trans-3-heptene | 5.53 | 48.99 | 59.49 | 49.57 | 45.49 |
| 00142-82-5 | n-heptane | 0.81 | 194.63 | 241.64 | 192.24 | 174.39 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 30.33 | 37.91 | 50.74 | 46.66 |
| 14686-13-6 | trans-2-heptene | 5.53 | 22.16 | 27.99 | 26.24 | 22.75 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 9.33 | 11.66 | 11.08 | 9.91 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 15.16 | 17.50 | 41.41 | 38.49 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 24.49 | 31.49 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 21.00 | 26.24 | 23.33 | 21.58 |
| 00108-87-2 | methylcyclohexane | 1.85 | 112.56 | 135.30 | 110.23 | 100.31 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 16.03 | 19.59 | 16.62 | 15.44 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 25.08 | 31.49 | 26.24 | 23.91 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 75.99 | 94.99 | 65.31 | 60.56 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 84.30 | 105.68 | 80.15 | 74.21 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 15.16 | 19.25 | 16.91 | 15.16 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 9.91 | 17.50 | 16.91 | 15.16 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 178.70 | 227.38 | 149.61 | 138.33 |
| 00108-88-3 | toluene | 2.73 | 1231.40 | 1565.25 | 1280.66 | 1160.25 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 65.90 | 87.87 | 69.46 | 61.74 |
| 00592-27-8 | 2-methylheptane | 0.96 | 61.74 | 86.08 | 73.02 | 67.09 |
| 00589-53-7 | 4-methylheptane | 1.20 | 39.78 | 54.62 | 29.09 | 27.31 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 8.91 | 12.47 | 9.50 | 8.91 |
| 00589-81-1 | 3-methylheptane | 0.99 | 89.65 | 123.49 | 76.59 | 71.24 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 27.99 | 26.83 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 8.75 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 37.33 | 49.77 | 40.88 | 37.92 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 11.08 | 10.50 | 9.91 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 9.33 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 11.26 | 15.41 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 36.81 | 51.06 | 48.09 | 45.12 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 14.00 | 12.83 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 12.44 | 16.00 | 16.59 | 16.59 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 10.07 | 16.59 | 13.04 | 13.04 |
| 00100-41-4 | ethylbenzene | 2.70 | 158.91 | 209.12 | 200.30 | 190.36 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 390.11 | 497.70 | 477.29 | 451.91 |
| 02216-34-4 | 4-methyloctane | 1.14 | 12.44 | 16.59 | 23.70 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 13.63 |
| 02216-33-3 | 3-methyloctane | 1.14 | 10.67 | 13.63 | 15.41 | 15.41 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 134.63 | 164.98 | 160.57 | 153.39 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.00 | 8.87 | 8.87 | 11.24 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.00 | 10.69 | 11.28 | 10.69 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 22.77 | 24.43 | 24.99 | 23.32 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 77.18 | 75.52 | 76.07 | 72.19 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 34.98 | 33.87 | 31.65 | 29.98 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 141.04 | 71.07 | 38.31 | 36.09 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 27.76 | 24.99 | 23.32 | 22.21 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 133.27 | 104.95 | 102.73 | 94.95 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 11.83 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 30.54 | 20.55 | 20.55 | 18.88 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 14.19 | 10.37 | 10.37 | 9.28 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 22.88 | 12.84 | 12.84 | 11.72 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 17.30 | 9.49 | 9.49 | 8.37 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 30.14 | 15.07 | 14.51 | 13.39 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 22.32 | 10.60 | 8.93 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 21.76 | 10.60 | 8.37 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 40.74 | 20.09 | 17.86 | 16.18 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 9.45 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 10.05 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 24.55 | 11.16 | 10.05 | 8.37 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 35.16 | 16.18 | 13.95 | 12.28 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 26.93 | 10.44 | 8.79 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 8.97 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 24.19 | 11.54 | 10.44 | 8.25 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 20.09 | 9.49 | 8.93 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 11.77 | 0.00 | 0.00 | 0.00 |
| D1595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 15.80 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 10.66 | 0.00 | 9.59 | 0.00 |
| D0098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 20.80 | 10.12 | 8.43 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 25273.92 | 25928.06 | 17409.03 | 16175.40 |
| NMHC-ST | NMHC Subtotal | | 82248.64 | 81625.94 | 67590.01 | 64650.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

| | | MIR | T10-RFA-1 WT% | T10-RFA-2 WT% | T10-RFA-3 WT% | T10-RFA-4 WT% |
|------------|---------------------|-------|------------------|------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 0.06 | 0.27 | 0.22 | 0.06 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 0.85 | 0.88 | 1.11 | 1.14 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 31.51 | 31.31 | 35.31 | 35.98 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 0.14 | 0.14 | 0.16 | 0.16 |
| 00106-98-9 | 1-butene | 8.91 | 0.03 | 0.03 | 0.03 | 0.04 |
| 00115-11-7 | 2-methylpropene | 5.31 | 0.03 | 0.03 | 0.04 | 0.04 |
| 00590-18-1 | cis-2-butene | 9.94 | 0.17 | 0.17 | 0.20 | 0.20 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 0.26 | 0.27 | 0.33 | 0.34 |
| 00078-78-4 | 2-methylbutane | 1.38 | 30.64 | 29.84 | 31.42 | 31.65 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1.35 | 1.29 | 1.30 | 1.29 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1.85 | 1.76 | 1.79 | 1.77 |
| 00109-67-1 | 1-pentene | 6.22 | 0.56 | 0.53 | 0.56 | 0.56 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1.08 | 1.04 | 1.06 | 1.06 |
| 00627-20-3 | cis-2-pentene | 8.8 | 0.73 | 0.70 | 0.72 | 0.71 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 69.27 | 68.24 | 74.24 | 74.98 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

| | | MIR | T10-RFA-1 WT% | T10-RFA-2 WT% | T10-RFA-3 WT% | T10-RFA-4 WT% |
|------------|--------------------------|------|------------------|------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 0.17 | 0.16 | 0.14 | 0.14 |
| 00109-66-0 | n-pentane | 1.04 | 5.79 | 5.58 | 4.15 | 4.18 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.02 | 0.02 | 0.01 | 0.01 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 0.02 | 0.02 | 0.02 | 0.01 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 0.86 | 0.85 | 0.69 | 0.70 |
| 00142-29-0 | cyclopentene | 7.66 | 0.18 | 0.17 | 0.14 | 0.14 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 0.13 | 0.12 | 0.11 | 0.11 |
| 00287-92-3 | cyclopentane | 2.38 | 0.19 | 0.18 | 0.16 | 0.16 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1.52 | 1.50 | 1.17 | 1.16 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 2.18 | 2.14 | 0.57 | 0.57 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 4.36 | 4.31 | 3.37 | 3.32 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 0.14 | 0.14 | 0.12 | 0.11 |
| 00096-14-0 | 3-methylpentane | 1.52 | 2.20 | 2.19 | 1.82 | 1.78 |
| 00592-41-6 | 1-hexene | 4.42 | 0.08 | 0.08 | 0.08 | 0.07 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 0.18 | 0.18 | 0.16 | 0.16 |
| 00110-54-3 | n-hexane | 0.98 | 1.32 | 1.35 | 1.19 | 1.15 |
| 13269-52-8 | trans-3-hexene | 6.69 | 0.14 | 0.14 | 0.14 | 0.13 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 0.26 | 0.27 | 0.19 | 0.18 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 0.22 | 0.22 | 0.05 | 0.05 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.00 | 0.00 | 0.21 | 0.20 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 0.16 | 0.17 | 0.16 | 0.15 |
| 07688-21-3 | cis-2-hexene | 6.69 | 0.11 | 0.11 | 0.11 | 0.10 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 0.58 | 0.60 | 0.55 | 0.53 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 0.66 | 0.69 | 0.51 | 0.49 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 0.83 | 0.89 | 0.88 | 0.82 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.01 | 0.02 | 0.01 | 0.01 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 0.04 | 0.04 | 0.04 | 0.04 |
| 00110-82-7 | cyclohexane | 1.28 | 0.08 | 0.09 | 0.09 | 0.09 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.02 | 0.02 | 0.01 | 0.01 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 0.03 | 0.04 | 0.04 | 0.04 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1.37 | 1.53 | 1.20 | 1.14 |
| 00110-83-8 | cyclohexene | 5.67 | 0.02 | 0.03 | 0.03 | 0.02 |
| 00589-34-4 | 3-methylhexane | 1.40 | 0.46 | 0.53 | 0.49 | 0.47 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 0.09 | 0.10 | 0.10 | 0.09 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 0.07 | 0.08 | 0.08 | 0.08 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 0.11 | 0.13 | 0.13 | 0.12 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 1.18 | 1.35 | 0.92 | 0.88 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.01 | 0.02 | 0.02 | 0.02 |
| 14686-14-7 | trans-3-heptene | 5.53 | 0.06 | 0.07 | 0.07 | 0.07 |
| 00142-82-5 | n-heptane | 0.81 | 0.24 | 0.30 | 0.28 | 0.27 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 0.04 | 0.05 | 0.08 | 0.07 |
| 14686-13-6 | trans-2-heptene | 5.53 | 0.03 | 0.03 | 0.04 | 0.04 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.01 | 0.01 | 0.02 | 0.02 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 0.02 | 0.02 | 0.06 | 0.06 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.03 | 0.04 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0.03 | 0.03 | 0.03 | 0.03 |
| 00108-87-2 | methylcyclohexane | 1.85 | 0.14 | 0.17 | 0.16 | 0.16 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 0.03 | 0.04 | 0.04 | 0.04 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 0.09 | 0.12 | 0.10 | 0.09 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 0.10 | 0.13 | 0.12 | 0.11 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.02 | 0.02 | 0.03 | 0.02 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.01 | 0.02 | 0.03 | 0.02 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 0.22 | 0.28 | 0.22 | 0.21 |
| 00108-88-3 | toluene | 2.73 | 1.50 | 1.92 | 1.89 | 1.79 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 0.08 | 0.11 | 0.10 | 0.10 |
| 00592-27-8 | 2-methylheptane | 0.96 | 0.08 | 0.11 | 0.11 | 0.10 |
| 00589-53-7 | 4-methylheptane | 1.20 | 0.05 | 0.07 | 0.04 | 0.04 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.01 | 0.02 | 0.01 | 0.01 |
| 00589-81-1 | 3-methylheptane | 0.99 | 0.11 | 0.15 | 0.11 | 0.11 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.04 | 0.04 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.01 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 0.05 | 0.06 | 0.06 | 0.06 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.01 | 0.02 | 0.02 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.01 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.01 | 0.02 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 0.04 | 0.06 | 0.07 | 0.07 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.02 | 0.02 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-1 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.02 | 0.02 | 0.02 | 0.03 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.01 | 0.02 | 0.02 | 0.02 |
| 00100-41-4 | ethylbenzene | 2.70 | 0.19 | 0.26 | 0.30 | 0.29 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|--------|--------|--------|--------|
| 00108-38-3 | m- & p-xylene | 7.64 | 0.47 | 0.61 | 0.71 | 0.70 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.02 | 0.02 | 0.04 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.00 | 0.00 | 0.00 | 0.02 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.01 | 0.02 | 0.02 | 0.02 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 0.16 | 0.20 | 0.24 | 0.24 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.00 | 0.01 | 0.01 | 0.02 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.00 | 0.01 | 0.02 | 0.02 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 0.03 | 0.03 | 0.04 | 0.04 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 0.09 | 0.09 | 0.11 | 0.11 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 0.04 | 0.04 | 0.05 | 0.05 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 0.17 | 0.09 | 0.06 | 0.06 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0.03 | 0.03 | 0.03 | 0.03 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 0.16 | 0.13 | 0.15 | 0.15 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.00 | 0.00 | 0.02 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.04 | 0.03 | 0.03 | 0.03 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.02 | 0.01 | 0.02 | 0.01 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.03 | 0.02 | 0.02 | 0.02 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.02 | 0.01 | 0.01 | 0.01 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.04 | 0.02 | 0.02 | 0.02 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.03 | 0.01 | 0.01 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.03 | 0.01 | 0.01 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.05 | 0.02 | 0.03 | 0.03 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.01 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.01 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.03 | 0.01 | 0.01 | 0.01 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.04 | 0.02 | 0.02 | 0.02 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.03 | 0.01 | 0.01 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.01 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.03 | 0.01 | 0.02 | 0.01 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.02 | 0.01 | 0.01 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.01 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.02 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.01 | 0.00 | 0.01 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.03 | 0.01 | 0.01 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 30.73 | 31.76 | 25.76 | 25.02 |
| NMHC-ST | NMHC Subtotal | | 100.00 | 100.00 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | J-PH2-3 PPBC | J-PH2-4 PPBC | J-RFA-3 PPBC | J-RFA-4 PPBC |
|------------|---------------------|-------|-----------------|-----------------|-----------------|-----------------|
| 00074-84-0 | ethane | 0.25 | 53 | 59 | 0 | 0 |
| 00074-85-1 | ethene | 7.29 | 0 | 0 | 0 | 0 |
| 00074-98-6 | propane | 0.48 | 109 | 97 | 52 | 47 |
| 00115-07-1 | propene | 9.4 | 0 | 0 | 0 | 0 |
| 00075-28-5 | methylpropane | 1.21 | 521 | 556 | 622 | 668 |
| 00074-86-2 | ethyne | 0.5 | 0 | 0 | 0 | 0 |
| 00106-97-8 | n-butane | 1.02 | 15700 | 17100 | 22900 | 24500 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 9.94 | 37 | 40 | 119 | 127 |
| 00106-98-9 | 1-butene | 8.91 | 16 | 18 | 24 | 26 |
| 00115-11-7 | 2-methylpropene | 5.31 | 68 | 86 | 24 | 25 |
| 00590-18-1 | cis-2-butene | 9.94 | 31 | 33 | 147 | 158 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 124 | 135 | 183 | 196 |
| 00078-78-4 | 2-methylbutane | 1.38 | 23600 | 27500 | 21300 | 22700 |
| 00074-99-7 | 1-propyne | 4.1 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 32 | 35 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1020 | 1250 | 1100 | 1160 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1460 | 1810 | 1490 | 1570 |
| 00109-67-1 | 1-pentene | 6.22 | 463 | 549 | 445 | 473 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 920 | 1100 | 830 | 882 |
| 00627-20-3 | cis-2-pentene | 8.8 | 552 | 675 | 603 | 639 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 9.24 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0 | 0 | 0 | 0 |
| LE-ST | Light End Subtotal | | 44706.00 | 51043.00 | 49839.00 | 53171.00 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | J-PH2-3 PPBC | J-PH2-4 PPBC | J-RFA-3 PPBC | J-RFA-4 PPBC |
|------------|--------------------------|------|-----------------|-----------------|-----------------|-----------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 80 | 86 | 95 | 103 |
| 00109-66-0 | n-pentane | 1.04 | 1870 | 2120 | 3150 | 3380 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 24 | 25 | 16 | 16 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0 | 0 | 0 | 0 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 18 | 21 | 16 | 16 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 464 | 563 | 459 | 491 |
| 00142-29-0 | cyclopentene | 7.66 | 102 | 124 | 128 | 135 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 65 | 81 | 82 | 88 |
| 00287-92-3 | cyclopentane | 2.38 | 69 | 83 | 134 | 143 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1100 | 1430 | 51 | 867 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0 | 0 | 0 | 54 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 6910 | 8920 | 83 | 83 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 1.53 | 2150 | 2810 | 2470 | 2620 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 74 | 91 | 92 | 96 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1040 | 1380 | 1330 | 1410 |
| 00592-41-6 | 1-hexene | 4.42 | 45 | 61 | 61 | 64 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 100 | 134 | 127 | 134 |
| 00110-54-3 | n-hexane | 0.98 | 468 | 627 | 909 | 959 |
| 13269-52-8 | trans-3-hexene | 6.69 | 78 | 107 | 114 | 120 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 6.69 | 110 | 153 | 158 | 166 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 34 | 46 | 44 | 46 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 126 | 175 | 172 | 181 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 97 | 132 | 131 | 138 |
| 07688-21-3 | cis-2-hexene | 6.69 | 60 | 83 | 87 | 92 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 2.82 | 275 | 376 | 427 | 453 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 904 | 1380 | 342 | 361 |

| | | | | | | |
|------------|--------------------------------------|------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0 | 0 | 0 | 0 |
| 00071-43-2 | benzene | 0.42 | 571 | 815 | 817 | 860 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0 | 0 | 0 | 0 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 24 | 34 | 28 | 30 |
| 00110-82-7 | cyclohexane | 1.28 | 42 | 58 | 69 | 74 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0 | 0 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 20 | 29 | 28 | 30 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 1620 | 2570 | 780 | 835 |
| 00110-83-8 | cyclohexene | 5.67 | 36 | 56 | 19 | 20 |
| 00589-34-4 | 3-methylhexane | 1.40 | 341 | 515 | 324 | 349 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 53 | 76 | 69 | 75 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 46 | 67 | 58 | 63 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 79 | 117 | 85 | 92 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 2080 | 3480 | 544 | 590 |
| 00592-76-7 | 1-heptene | 3.48 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0 | 19 | 15 | 17 |
| 14686-14-7 | trans-3-heptene | 5.53 | 41 | 59 | 51 | 56 |
| 00142-82-5 | n-heptane | 0.81 | 209 | 325 | 184 | 202 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0 | 0 | 0 | 0 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 41 | 57 | 53 | 58 |
| 14686-13-6 | trans-2-heptene | 5.53 | 20 | 28 | 25 | 27 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 41 | 61 | 42 | 47 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0 | 0 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 5.53 | 20 | 28 | 23 | 26 |
| 00108-87-2 | methylcyclohexane | 1.85 | 93 | 134 | 107 | 121 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 19 | 29 | 15 | 17 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 25 | 36 | 25 | 29 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 141 | 240 | 58 | 66 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 163 | 281 | 68 | 80 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 16 | 23 | 15 | 17 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 16 | 22 | 15 | 17 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 427 | 759 | 127 | 150 |
| 00108-88-3 | toluene | 2.73 | 1770 | 2880 | 1300 | 1480 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 130 | 223 | 55 | 66 |
| 00592-27-8 | 2-methylheptane | 0.96 | 83 | 130 | 58 | 72 |
| 00589-53-7 | 4-methylheptane | 1.20 | 36 | 57 | 24 | 29 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0 | 0 | 0 | 0 |
| 00589-81-1 | 3-methylheptane | 0.99 | 92 | 149 | 60 | 76 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 30 | 42 | 24 | 29 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 80 | 139 | 31 | 40 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 16 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0 | 0 | 0 | 0 |
| 00111-66-0 | 1-octene | 2.69 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 5.29 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0.61 | 55 | 85 | 36 | 47 |
| 13389-42-9 | trans-2-octene | 5.29 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 16 | 25 | 0 | 15 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 5.29 | 0 | 22 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 19 | 30 | 0 | 16 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 17 | 28 | 0 | 0 |
| 00100-41-4 | ethylbenzene | 2.70 | 270 | 423 | 157 | 214 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0 | 0 | 0 | 0 |

| 00108-38-3 | m- & p-xylene | 7.64 | 635 | 988 | 352 |
|------------|-------------------------------------|-------|----------|----------|----------|
| 02216-34-4 | 4-methyloctane | 1.14 | 0 | 22 | 0 |
| 03221-61-2 | 2-methyloctane | 1.14 | 18 | 28 | 0 |
| 02216-33-3 | 3-methyloctane | 1.14 | 20 | 32 | 0 |
| 00100-42-5 | styrene | 2.22 | 0 | 0 | 15 |
| 00095-47-6 | o-xylene | 6.46 | 219 | 344 | 112 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0 | 0 | 0 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0 | 0 | 0 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 25 | 44 | 0 |
| 00124-11-8 | 1-nonene | 2.23 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 0.54 | 20 | 36 | 0 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0 | 18 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0 | 0 | 0 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0 | 0 | 0 |
| 00103-65-1 | n-propylbenzene | 2.12 | 35 | 59 | 0 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 102 | 166 | 41 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 44 | 71 | 17 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 47 | 78 | 19 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0 | 29 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 30 | 49 | 0 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 122 | 199 | 46 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 0.47 | 16 | 24 | 0 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 21 | 35 | 0 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0 | 18 | 0 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0 | 22 | 0 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0 | 16 | 0 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0 | 21 | 0 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0 | 0 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0 | 21 | 0 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0 | 0 | 0 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 1.06 | 0 | 0 | 0 |
| 00824-22-6 | 4-methylindan | 1.06 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 1.06 | 0 | 0 | 0 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0 | 0 | 0 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 1.18 | 0 | 0 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0.38 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | | 26399.00 | 37495.00 | 16654.00 |
| NMHC-ST | NMHC Subtotal | | 71105.00 | 88538.00 | 66493.00 |
| | | | | | 19166.00 |
| | | | | | 72337.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

| | | MIR | J-PH2-3 UG/M3 | J-PH2-4 UG/M3 | J-RFA-3 UG/M3 | J-RFA-4 UG/M3 |
|------------|---------------------|-------|------------------|------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.25 | 33.13 | 36.88 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 66.62 | 59.28 | 31.78 | 28.72 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 314.77 | 335.92 | 375.79 | 403.58 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 9485.39 | 10331.22 | 13835.38 | 14802.04 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00524-64-6 | trans-2-butene | 9.94 | 21.58 | 23.33 | 69.40 | 74.07 |
| 00106-98-9 | 1-butene | 8.91 | 9.33 | 10.50 | 14.00 | 15.16 |
| 00115-11-7 | 2-methylpropene | 5.31 | 39.66 | 50.16 | 14.00 | 14.58 |
| 00590-18-1 | cis-2-butene | 9.94 | 18.08 | 19.25 | 85.73 | 92.15 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 74.40 | 81.00 | 109.80 | 117.59 |
| 00078-78-4 | 2-methylbutane | 1.38 | 14159.39 | 16499.29 | 12779.45 | 13619.41 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 17.99 | 19.68 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 594.87 | 729.01 | 641.53 | 676.52 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 851.49 | 1055.61 | 868.98 | 915.64 |
| 00109-67-1 | 1-pentene | 6.22 | 270.03 | 320.18 | 259.53 | 275.86 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 536.55 | 641.53 | 484.06 | 514.39 |
| 00627-20-3 | cis-2-pentene | 8.8 | 321.93 | 393.67 | 351.68 | 372.67 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |

LE-ST Light End Subtotal 26815.21 30606.50 29921.11 31922.40

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

| | | MIR | J-PH2-3 UG/M3 | J-PH2-4 UG/M3 | J-RFA-3 UG/M3 | J-RFA-4 UG/M3 |
|------------|--------------------------|------|------------------|------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 46.66 | 50.16 | 55.41 | 60.07 |
| 00109-66-0 | n-pentane | 1.04 | 1121.95 | 1271.95 | 1889.92 | 2027.91 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 13.59 | 14.16 | 9.06 | 9.06 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 10.20 | 11.90 | 9.06 | 9.06 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 277.09 | 336.21 | 274.11 | 293.22 |
| 00142-29-0 | cyclopentene | 7.66 | 57.78 | 70.24 | 72.51 | 76.47 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 38.82 | 48.37 | 48.97 | 52.55 |
| 00287-92-3 | cyclopentane | 2.38 | 40.24 | 48.41 | 78.15 | 83.40 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 656.90 | 853.97 | 30.46 | 517.76 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 29.68 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 5065.15 | 6538.51 | 60.84 | 60.84 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 1283.94 | 1678.08 | 1475.04 | 1564.61 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 43.16 | 53.07 | 53.66 | 55.99 |
| 00096-14-0 | 3-methylpentane | 1.52 | 621.07 | 824.11 | 794.25 | 842.02 |
| 00592-41-6 | 1-hexene | 4.42 | 26.24 | 35.58 | 35.58 | 37.33 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 58.32 | 78.15 | 74.07 | 78.15 |
| 00110-54-3 | n-hexane | 0.98 | 279.48 | 374.43 | 542.84 | 572.70 |
| 13269-52-8 | trans-3-hexene | 6.69 | 45.49 | 62.40 | 66.49 | 69.99 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 64.15 | 89.23 | 92.15 | 96.81 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 19.83 | 26.83 | 25.66 | 26.83 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 73.48 | 102.06 | 100.31 | 105.56 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 55.22 | 75.14 | 74.57 | 78.56 |
| 07688-21-3 | cis-2-hexene | 6.69 | 34.99 | 48.41 | 50.74 | 53.66 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 160.38 | 219.29 | 249.03 | 264.19 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 538.05 | 821.35 | 203.55 | 214.86 |

| | | | | | | |
|------------|--------------------------------------|------|---------|---------|--------|--------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 309.08 | 441.16 | 442.24 | 465.52 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 14.00 | 19.83 | 16.33 | 17.50 |
| 00110-82-7 | cyclohexane | 1.28 | 24.49 | 33.83 | 40.24 | 43.16 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 11.66 | 16.91 | 16.33 | 17.50 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 964.20 | 1529.62 | 464.24 | 496.98 |
| 00110-83-8 | cyclohexene | 5.67 | 20.49 | 31.88 | 10.82 | 11.38 |
| 00589-34-4 | 3-methylhexane | 1.40 | 202.96 | 306.52 | 192.84 | 207.72 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 30.91 | 44.32 | 40.24 | 43.74 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 26.83 | 39.08 | 33.83 | 36.74 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 47.02 | 69.64 | 50.59 | 54.76 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 1234.87 | 2066.03 | 322.97 | 350.28 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.00 | 11.08 | 8.75 | 9.91 |
| 14686-14-7 | trans-3-heptene | 5.53 | 23.91 | 34.41 | 29.74 | 32.66 |
| 00142-82-5 | n-heptane | 0.81 | 124.39 | 193.43 | 109.51 | 120.23 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 23.91 | 33.24 | 30.91 | 33.83 |
| 14686-13-6 | trans-2-heptene | 5.53 | 11.66 | 16.33 | 14.58 | 15.75 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 23.91 | 35.58 | 24.49 | 27.41 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 11.66 | 16.33 | 13.41 | 15.16 |
| 00108-87-2 | methylcyclohexane | 1.85 | 54.24 | 78.15 | 62.40 | 70.57 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 11.28 | 17.22 | 8.91 | 10.09 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 14.58 | 21.00 | 14.58 | 16.91 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 83.71 | 142.49 | 34.43 | 39.18 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 96.77 | 166.83 | 40.37 | 47.50 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 9.33 | 13.41 | 8.75 | 9.91 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 9.33 | 12.83 | 8.75 | 9.91 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 253.50 | 450.61 | 75.40 | 89.05 |
| 00108-88-3 | toluene | 2.73 | 968.70 | 1576.19 | 711.48 | 809.99 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 77.18 | 132.39 | 32.65 | 39.18 |
| 00592-27-8 | 2-methylheptane | 0.96 | 49.28 | 77.18 | 34.43 | 42.75 |
| 00589-53-7 | 4-methylheptane | 1.20 | 21.37 | 33.84 | 14.25 | 17.22 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 54.62 | 88.46 | 35.62 | 45.12 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 17.50 | 24.49 | 14.00 | 16.91 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 47.40 | 82.36 | 18.37 | 23.70 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 9.33 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 32.65 | 50.46 | 21.37 | 27.90 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 9.33 | 14.58 | 0.00 | 8.75 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 12.83 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 11.26 | 17.78 | 0.00 | 9.48 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 10.07 | 16.59 | 0.00 | 0.00 |
| 00100-41-4 | ethylbenzene | 2.70 | 148.98 | 233.40 | 86.63 | 118.08 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|----------|----------|----------|----------|
| 00108-38-3 | m- & p-xylene | 7.64 | 350.38 | 545.16 | 194.23 | 270.37 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 13.04 | 0.00 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 10.67 | 16.59 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 11.85 | 18.96 | 0.00 | 8.89 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 120.84 | 189.81 | 61.80 | 91.04 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 14.79 | 26.03 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 11.87 | 21.37 | 0.00 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 9.99 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 19.43 | 32.76 | 0.00 | 12.77 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 56.64 | 92.18 | 22.77 | 37.20 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 24.43 | 39.42 | 9.44 | 15.55 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 26.10 | 43.31 | 10.55 | 17.21 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 17.16 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 16.66 | 27.21 | 0.00 | 10.55 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 67.74 | 110.50 | 25.54 | 44.42 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 9.47 | 14.20 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 11.66 | 19.43 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 9.83 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 12.28 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 8.93 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.00 | 11.72 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 11.72 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 16471.77 | 23235.24 | 9775.18 | 11241.72 |
| NMHC-ST | NMHC Subtotal | | 43286.98 | 53841.73 | 39696.29 | 43164.12 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | MIR | J-PH2-3 | J-PH2-4 | J-RFA-3 | J-RFA-4 |
|------------|---------------------|-------|---------|---------|---------|---------|
| | | | WT% | WT% | WT% | WT% |
| 00074-84-0 | ethane | 0.25 | 0.08 | 0.07 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 7.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 0.48 | 0.15 | 0.11 | 0.08 | 0.07 |
| 00115-07-1 | propene | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 1.21 | 0.73 | 0.62 | 0.95 | 0.93 |
| 00074-86-2 | ethyne | 0.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 1.02 | 21.91 | 19.19 | 34.85 | 34.29 |
| 00463-49-0 | 1,2-propadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 9.94 | 0.05 | 0.04 | 0.17 | 0.17 |
| 00106-98-9 | 1-butene | 8.91 | 0.02 | 0.02 | 0.04 | 0.04 |
| 00115-11-7 | 2-methylpropene | 5.31 | 0.09 | 0.09 | 0.04 | 0.03 |
| 00590-18-1 | cis-2-butene | 9.94 | 0.04 | 0.04 | 0.22 | 0.21 |
| 00463-82-1 | 2,2-dimethylpropane | 0.37 | 0.17 | 0.15 | 0.28 | 0.27 |
| 00078-78-4 | 2-methylbutane | 1.38 | 32.71 | 30.64 | 32.19 | 31.55 |
| 00074-99-7 | 1-propyne | 4.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 10.89 | 0.04 | 0.04 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 10.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 8.8 | 1.37 | 1.35 | 1.62 | 1.57 |
| 00513-35-9 | 2-methyl-2-butene | 6.41 | 1.97 | 1.96 | 2.19 | 2.12 |
| 00109-67-1 | 1-pentene | 6.22 | 0.62 | 0.59 | 0.65 | 0.64 |
| 00563-46-2 | 2-methyl-1-butene | 4.9 | 1.24 | 1.19 | 1.22 | 1.19 |
| 00627-20-3 | cis-2-pentene | 8.8 | 0.74 | 0.73 | 0.89 | 0.86 |
| 00689-97-4 | 1-buten-3-yne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | | 61.95 | 56.85 | 75.38 | 73.96 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | MIR | J-PH2-3 | J-PH2-4 | J-RFA-3 | J-RFA-4 |
|------------|--------------------------|------|---------|---------|---------|---------|
| | | | WT% | WT% | WT% | WT% |
| 00460-12-8 | 1,3-butadiyne | 9.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 6.22 | 0.11 | 0.09 | 0.14 | 0.14 |
| 00109-66-0 | n-pentane | 1.04 | 2.59 | 2.36 | 4.76 | 4.70 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 9.08 | 0.03 | 0.03 | 0.02 | 0.02 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 9.08 | 0.02 | 0.02 | 0.02 | 0.02 |
| 00075-83-2 | 2,2-dimethylbutane | 0.82 | 0.64 | 0.62 | 0.69 | 0.68 |
| 00142-29-0 | cyclopentene | 7.66 | 0.13 | 0.13 | 0.18 | 0.18 |
| 00691-37-2 | 4-methyl-1-pentene | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 4.42 | 0.09 | 0.09 | 0.12 | 0.12 |
| 00287-92-3 | cyclopentane | 2.38 | 0.09 | 0.09 | 0.20 | 0.19 |
| 00079-29-8 | 2,3-dimethylbutane | 1.07 | 1.52 | 1.59 | 0.08 | 1.20 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 4.42 | 0.00 | 0.00 | 0.00 | 0.07 |
| 01634-04-4 | methyl-tert-butyl-ether | 0.62 | 11.70 | 12.14 | 0.15 | 0.14 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 1.53 | 2.97 | 3.12 | 3.72 | 3.62 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 6.69 | 0.10 | 0.10 | 0.14 | 0.13 |
| 00096-14-0 | 3-methylpentane | 1.52 | 1.43 | 1.53 | 2.00 | 1.95 |
| 00592-41-6 | 1-hexene | 4.42 | 0.06 | 0.07 | 0.09 | 0.09 |
| 00763-29-1 | 2-methyl-1-pentene | 4.42 | 0.13 | 0.15 | 0.19 | 0.18 |
| 00110-54-3 | n-hexane | 0.98 | 0.65 | 0.70 | 1.37 | 1.33 |
| 13269-52-8 | trans-3-hexene | 6.69 | 0.11 | 0.12 | 0.17 | 0.16 |
| 07642-09-3 | cis-3-hexene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 6.69 | 0.15 | 0.17 | 0.23 | 0.22 |
| 00625-27-4 | 2-methyl-2-pentene | 6.69 | 0.05 | 0.05 | 0.06 | 0.06 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 6.69 | 0.17 | 0.19 | 0.25 | 0.24 |
| 01120-62-3 | 3-methylcyclopentene | 5.65 | 0.13 | 0.14 | 0.19 | 0.18 |
| 07688-21-3 | cis-2-hexene | 6.69 | 0.08 | 0.09 | 0.13 | 0.12 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 2.82 | 0.37 | 0.41 | 0.63 | 0.61 |
| 00108-08-7 | 2,4-dimethylpentane | 1.78 | 1.24 | 1.53 | 0.51 | 0.50 |

| | | | | | |
|------------|--------------------------------------|------|------|------|------|
| 00464-06-2 | 2,2,3-trimethylbutane | 1.32 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 3.48 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 7.66 | 0.00 | 0.00 | 0.00 |
| 00071-43-2 | benzene | 0.42 | 0.71 | 0.82 | 1.11 |
| 03404-61-3 | 3-methyl-1-hexene | 3.48 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.71 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 5.53 | 0.03 | 0.04 | 0.04 |
| 00110-82-7 | cyclohexane | 1.28 | 0.06 | 0.06 | 0.10 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 5.53 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 5.53 | 0.03 | 0.03 | 0.04 |
| 00591-76-4 | 2-methylhexane | 1.08 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 1.51 | 2.23 | 2.84 | 1.17 |
| 00110-83-8 | cyclohexene | 5.67 | 0.05 | 0.06 | 0.03 |
| 00589-34-4 | 3-methylhexane | 1.40 | 0.47 | 0.57 | 0.49 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 2.55 | 0.07 | 0.08 | 0.10 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 2.55 | 0.06 | 0.07 | 0.09 |
| 00617-78-7 | 3-ethylpentane | 1.40 | 0.11 | 0.13 | 0.13 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 1.85 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 0.93 | 2.85 | 3.84 | 0.81 |
| 00592-76-7 | 1-heptene | 3.48 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 5.53 | 0.00 | 0.02 | 0.02 |
| 14686-14-7 | trans-3-heptene | 5.53 | 0.06 | 0.06 | 0.07 |
| 00142-82-5 | n-heptane | 0.81 | 0.29 | 0.36 | 0.28 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 2.69 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 5.53 | 0.06 | 0.06 | 0.08 |
| 14686-13-6 | trans-2-heptene | 5.53 | 0.03 | 0.03 | 0.04 |
| 00816-79-5 | 3-ethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 5.53 | 0.06 | 0.07 | 0.06 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 5.53 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 5.53 | 0.03 | 0.03 | 0.04 |
| 00108-87-2 | methylcyclohexane | 1.85 | 0.13 | 0.15 | 0.16 |
| 00590-73-8 | 2,2-dimethylhexane | 1.20 | 0.03 | 0.03 | 0.02 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 5.29 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 2.31 | 0.03 | 0.04 | 0.04 |
| 00592-13-2 | 2,5-dimethylhexane | 1.63 | 0.19 | 0.26 | 0.09 |
| 00589-43-5 | 2,4-dimethylhexane | 1.50 | 0.22 | 0.31 | 0.10 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 1.94 | 0.02 | 0.02 | 0.02 |
| 00563-16-6 | 3,3-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopenta | 1.94 | 0.02 | 0.02 | 0.02 |
| 00565-75-3 | 2,3,4-trimethylpentane | 1.60 | 0.59 | 0.84 | 0.19 |
| 00108-88-3 | toluene | 2.73 | 2.24 | 2.93 | 1.79 |
| 00560-21-4 | 2,3,3-trimethylpentane | 1.20 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 1.32 | 0.18 | 0.25 | 0.08 |
| 00592-27-8 | 2-methylheptane | 0.96 | 0.11 | 0.14 | 0.09 |
| 00589-53-7 | 4-methylheptane | 1.20 | 0.05 | 0.06 | 0.04 |
| 00583-48-2 | 3,4-dimethylhexane | 1.20 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 0.99 | 0.13 | 0.16 | 0.09 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 1.94 | 0.04 | 0.05 | 0.04 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.97 | 0.11 | 0.15 | 0.05 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.02 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 1.94 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 2.69 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 5.29 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.61 | 0.08 | 0.09 | 0.05 |
| 13389-42-9 | trans-2-octene | 5.29 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 1.94 | 0.02 | 0.03 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 5.29 | 0.00 | 0.02 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 1.14 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 1.34 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 1.14 | 0.03 | 0.03 | 0.00 |
| 01678-91-7 | ethylcyclohexane | 1.94 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 1.14 | 0.02 | 0.03 | 0.00 |
| 00100-41-4 | ethylbenzene | 2.70 | 0.34 | 0.43 | 0.22 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 1.14 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------------|-------------------------------------|-------|--------|--------|--------|--------|
| 00108-38-3 | m- & p-xylene | 7.64 | 0.81 | 1.01 | 0.49 | 0.63 |
| 02216-34-4 | 4-methyloctane | 1.14 | 0.00 | 0.02 | 0.00 | 0.00 |
| 03221-61-2 | 2-methyloctane | 1.14 | 0.02 | 0.03 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 1.14 | 0.03 | 0.04 | 0.00 | 0.02 |
| 00100-42-5 | styrene | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 6.46 | 0.28 | 0.35 | 0.16 | 0.21 |
| 14720-74-2 | 2,2,4-trimethylheptane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02091-95-6 | 2,2,5-trimethylheptane | 1.01 | 0.03 | 0.05 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 0.54 | 0.03 | 0.04 | 0.00 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 2.24 | 0.00 | 0.02 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 2.12 | 0.04 | 0.06 | 0.00 | 0.03 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 7.20 | 0.13 | 0.17 | 0.06 | 0.09 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 7.20 | 0.06 | 0.07 | 0.02 | 0.04 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 10.12 | 0.06 | 0.08 | 0.03 | 0.04 |
| 00871-83-0 | 2-methylnonane | 1.01 | 0.00 | 0.03 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 7.20 | 0.04 | 0.05 | 0.00 | 0.02 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 8.83 | 0.16 | 0.21 | 0.06 | 0.10 |
| 00538-93-2 | (2-methylpropyl)benzene | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 0.47 | 0.02 | 0.03 | 0.00 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 8.85 | 0.03 | 0.04 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.06 | 0.00 | 0.02 | 0.00 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.45 | 0.00 | 0.02 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 6.45 | 0.00 | 0.02 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 9.07 | 0.00 | 0.02 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 9.07 | 0.00 | 0.02 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenze | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzen | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | | 38.05 | 43.15 | 24.62 | 26.04 |
| NMHC-ST | NMHC Subtotal | | 100.00 | 100.00 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

| CAS # | COMPOUND | SR-RFA-BKG | SR-RFA-3 | SR-RFA-3-NET | SR-RFA-4 | SR-RFA-4-NET |
|--------------|---------------------------|---------------|-----------------|-----------------|-----------------|-----------------|
| | | PPBC | PPBC | PPBC | PPBC | PPBC |
| 00074-84-0 | ethane | 17 | 20 | 3 | 20 | 3 |
| 00074-85-1 | ethene | 27 | 27 | 0 | 27 | 0 |
| 00074-98-6 | propane | 52 | 62 | 10 | 63 | 11 |
| 00115-07-1 | propene | 0 | 0 | 0 | 0 | 0 |
| 00075-28-5 | methylpropane | 19 | 320 | 301 | 332 | 313 |
| 00074-86-2 | ethyne | 28 | 27 | 0 | 27 | 0 |
| 00106-97-8 | n-butane | 79 | 11000 | 10921 | 11500 | 11421 |
| 00463-49-0 | 1,2-propadiene | 0 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 0 | 57 | 57 | 60 | 60 |
| 00106-98-9 | 1-butene | 0 | 0 | 0 | 0 | 0 |
| 00115-11-7 | 2-methylpropene | 0 | 19 | 19 | 19 | 19 |
| 00590-18-1 | cis-2-butene | 0 | 72 | 72 | 74 | 74 |
| 00463-82-1 | 2,2-dimethylpropane | 0 | 89 | 89 | 93 | 93 |
| 00078-78-4 | 2-methylbutane | 88 | 10200 | 10112 | 10600 | 10512 |
| 00074-99-7 | 1-propyne | 0 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 0 | 522 | 522 | 541 | 541 |
| 00513-35-9 | 2-methyl-2-butene | 0 | 701 | 701 | 728 | 728 |
| 00109-67-1 | 1-pentene | 0 | 213 | 213 | 222 | 222 |
| 00563-46-2 | 2-methyl-1-butene | 0 | 393 | 393 | 409 | 409 |
| 00627-20-3 | cis-2-pentene | 0 | 284 | 284 | 296 | 296 |
| 00689-97-4 | 1-buten-3-yne | 0 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 0 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 0 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 0 | 0 | 0 | 0 | 0 |
| LE-ST | Light End Subtotal | 310.00 | 24006.00 | 23697.00 | 25011.00 | 24702.00 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

| CAS # | COMPOUND | SR-RFA-BKG | SR-RFA-3 | SR-RFA-3-NET | PHASE 1 | PHASE 1 |
|------------|--------------------------|------------|----------|--------------|---------|---------|
| | | PPBC | PPBC | PPBC | PPBC | PPBC |
| 00460-12-8 | 1,3-butadiyne | 0 | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 0 | 48 | 48 | 39 | 39 |
| 00109-65-0 | n-pentane | 26 | 1560 | 1534 | 1620 | 1594 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 0 | 0 | 0 | 0 | 0 |
| 02004-70-8 | trans-1,3-pentadiene | 0 | 0 | 0 | 0 | 0 |
| 00075-83-2 | 2,2-dimethylbutane | 0 | 225 | 225 | 232 | 232 |
| 00142-29-0 | cyclopentene | 0 | 62 | 62 | 65 | 65 |
| 00691-37-2 | 4-methyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 0 | 40 | 40 | 43 | 43 |
| 00287-92-3 | cyclopentane | 0 | 66 | 66 | 69 | 69 |
| 00079-29-8 | 2,3-dimethylbutane | 0 | 399 | 399 | 411 | 411 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 0 | 26 | 26 | 26 | 26 |
| D1634-04-4 | methyl-tert-butyl-ether | 26 | 58 | 32 | 56 | 30 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 33 | 1230 | 1197 | 1270 | 1237 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 0 | 47 | 47 | 48 | 48 |
| 00096-14-0 | 3-methylpentane | 24 | 667 | 643 | 684 | 660 |
| 00592-41-6 | 1-hexene | 0 | 32 | 32 | 33 | 33 |
| 00763-29-1 | 2-methyl-1-pentene | 0 | 63 | 63 | 65 | 65 |
| 00110-54-3 | n-hexane | 25 | 473 | 448 | 481 | 456 |
| 13269-52-8 | trans-3-hexene | 0 | 58 | 58 | 58 | 58 |
| 07642-09-3 | cis-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 0 | 80 | 80 | 81 | 81 |
| 00625-27-4 | 2-methyl-2-pentene | 0 | 22 | 22 | 22 | 22 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 0 | 86 | 86 | 87 | 87 |
| 01120-62-3 | 3-methylcyclopentene | 0 | 64 | 64 | 64 | 64 |
| 07688-21-3 | cis-2-hexene | 0 | 44 | 44 | 44 | 44 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 0 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 18 | 218 | 200 | 219 | 201 |
| 00108-08-7 | 2,4-dimethylpentane | 0 | 173 | 173 | 171 | 171 |
| 00464-06-2 | 2,2,3-trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|-------------|---------------------------------------|-----|-----|-----|-----|-----|
| 00071-43-2 | benzene | 21 | 412 | 391 | 410 | 389 |
| 03404-61-3 | 3-methyl-1-hexene | 0 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 0 | 15 | 15 | 0 | 0 |
| D0110-82-7 | cyclohexane | 0 | 36 | 36 | 35 | 35 |
| D0692-24-0 | 2-methyl-trans-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 0 | 0 | 0 | 0 | 0 |
| D0591-76-4 | 2-methylhexane | 0 | 0 | 0 | 0 | 0 |
| D0565-59-3 | 2,3-dimethylpentane | 0 | 396 | 396 | 383 | 383 |
| D0110-83-8 | cyclohexene | 0 | 0 | 0 | 0 | 0 |
| D0589-34-4 | 3-methylhexane | 0 | 168 | 168 | 162 | 162 |
| D1759-58-6 | trans-1,3-dimethylcyclopentane | 0 | 35 | 35 | 34 | 34 |
| D2532-58-3 | cis-1,3-dimethylcyclopentane | 0 | 29 | 29 | 29 | 29 |
| D0617-78-7 | 3-ethylpentane | 0 | 43 | 43 | 42 | 42 |
| D0822-50-4 | trans-1,2-dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| D0540-84-1 | 2,2,4-trimethylpentane | 0 | 269 | 269 | 254 | 254 |
| D0592-76-7 | 1-heptene | 0 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 14686-14-7 | trans-3-heptene | 0 | 26 | 26 | 24 | 24 |
| D0142-82-5 | n-heptane | 0 | 98 | 98 | 93 | 93 |
| D0107-39-1 | 2,4,4-trimethyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| D2738-19-4 | 2-methyl-2-hexene | 0 | 27 | 27 | 25 | 25 |
| 14686-13-6 | trans-2-heptene | 0 | 0 | 0 | 0 | 0 |
| D0816-79-5 | 3-ethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 0 | 21 | 21 | 20 | 20 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 0 | 0 | 0 | 0 | 0 |
| D0108-87-2 | methylcyclohexane | 0 | 56 | 56 | 53 | 53 |
| 00590-73-8 | 2,2-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| D0592-13-2 | 2,5-dimethylhexane | 0 | 30 | 30 | 27 | 27 |
| D0589-43-5 | 2,4-dimethylhexane | 0 | 36 | 36 | 33 | 33 |
| D2815-58-9 | 1,2,4-trimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| D0563-16-6 | 3,3-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopentan | 0 | 0 | 0 | 0 | 0 |
| D0565-75-3 | 2,3,4-trimethylpentane | 0 | 65 | 65 | 58 | 58 |
| D0108-88-3 | toluene | 276 | 882 | 606 | 816 | 540 |
| D0560-21-4 | 2,3,3-trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| D0584-94-1 | 2,3-dimethylhexane | 0 | 27 | 27 | 27 | 27 |
| D0592-27-8 | 2-methylheptane | 0 | 33 | 33 | 29 | 29 |
| D0589-53-7 | 4-methylheptane | 0 | 0 | 0 | 0 | 0 |
| D0583-48-2 | 3,4-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| D0589-81-1 | 3-methylheptane | 0 | 35 | 35 | 29 | 29 |
| D0638-04-0 | cis-1,3-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| D2207-04-7 | trans-1,4-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0 | 19 | 19 | 15 | 15 |
| D2613-65-2 | trans-1-methyl-3-ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| D0111-66-0 | 1-octene | 0 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 0 | 0 | 0 | 0 | 0 |
| D0111-65-9 | n-octane | 0 | 24 | 24 | 18 | 18 |
| 13389-42-9 | trans-2-octene | 0 | 0 | 0 | 0 | 0 |
| D2207-03-6 | trans-1,3-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 16747-30-1 | 2,4,4-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| D7642-04-8 | cis-2-octene | 0 | 0 | 0 | 0 | 0 |
| D0169-53-0 | 2,3,5-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| D2213-23-2 | 2,4-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| D2207-01-4 | cis-1,2-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| D0172-05-5 | 2,6-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| D1678-91-7 | ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| D00926-82-9 | 3,5-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| D0100-41-4 | ethylbenzene | 26 | 123 | 97 | 84 | 58 |
| D1839-63-0 | 1,3,5-trimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| D3074-71-3 | 2,3-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| D0108-38-3 | m- & p-xylene | 82 | 312 | 230 | 212 | 130 |
| D2216-34-4 | 4-methyloctane | 0 | 19 | 19 | 0 | 0 |
| D3221-61-2 | 2-methyloctane | 0 | 0 | 0 | 0 | 0 |
| D2216-33-3 | 3-methyloctane | 0 | 15 | 15 | 0 | 0 |
| D0100-42-5 | styrene | 0 | 0 | 0 | 0 | 0 |
| D0095-47-6 | o-xylene | 38 | 116 | 78 | 77 | 39 |
| 14720-74-2 | 2,2,4-trimethylheptane | 0 | 0 | 0 | 0 | 0 |
| D6236-88-0 | 1-methyl-4-ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|--------------------------------------|---------|----------|----------|----------|----------|
| 02091-95-6 | 2,2,5-trimethylheptane | 18 | 18 | 0 | 17 | 0 |
| 00124-11-8 | 1-nonene | 0 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 36 | 41 | 5 | 40 | 4 |
| 04110-44-5 | 3,3-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 15 | 16 | 1 | 16 | 1 |
| 04032-94-4 | 2,4-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 17 | 18 | 1 | 18 | 1 |
| 00103-65-1 | n-propylbenzene | 0 | 35 | 35 | 25 | 25 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 33 | 80 | 47 | 50 | 17 |
| 00622-95-8 | 1-methyl-4-ethylbenzene | 15 | 35 | 20 | 23 | 8 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 26 | 50 | 24 | 35 | 9 |
| 00871-83-0 | 2-methylnonane | 17 | 38 | 21 | 37 | 20 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 18 | 33 | 15 | 23 | 5 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 64 | 140 | 76 | 87 | 23 |
| 00538-93-2 | (2-methylpropyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 72 | 78 | 6 | 42 | 0 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 18 | 32 | 14 | 23 | 5 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 19 | 23 | 4 | 16 | 0 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 19 | 30 | 11 | 19 | 0 |
| 00105-05-5 | 1,4-diethylbenzene | 0 | 18 | 18 | 0 | 0 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 0 | 25 | 25 | 0 | 0 |
| 00135-01-3 | 1,2-diethylbenzene | 0 | 0 | 0 | 0 | 0 |
| D1074-17-5 | 1-methyl-2-n-propylbenzene | 0 | 19 | 19 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 0 | 17 | 17 | 0 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 0 | 16 | 16 | 0 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 20 | 33 | 13 | 0 | 0 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 0 | 16 | 16 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0 | 0 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenzen | 0 | 0 | 0 | 0 | 0 |
| D0874-35-1 | 5-methylindan | 0 | 0 | 0 | 0 | 0 |
| 00824-22-6 | 4-methylindan | 0 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| D0824-63-5 | 2-methylindan | 0 | 16 | 16 | 0 | 0 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 0 | 0 | 0 | 0 | 0 |
| D0538-68-1 | n-pentylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 0 | 0 | 0 | 0 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzene | 0 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | 1002.00 | 9935.00 | 8933.00 | 9348.00 | 8400.00 |
| NMHC-ST | NMHC Subtotal | 1312.00 | 33941.00 | 32630.00 | 34359.00 | 33102.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

| | | SR-RFA-3 UG/M3 | SR-RFA-4 UG/M3 | SR-RFA-3 WT% | SR-RFA-4 WT% |
|--------------|---------------------------|-------------------|-------------------|-----------------|-----------------|
| 00074-84-0 | ethane | 1.88 | 1.88 | 0.01 | 0.01 |
| 00074-85-1 | ethene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 6.11 | 6.72 | 0.03 | 0.03 |
| 00115-07-1 | propene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 181.85 | 189.10 | 0.93 | 0.96 |
| 00074-86-2 | ethyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 6598.09 | 6900.17 | 33.90 | 34.90 |
| 00463-49-0 | 1,2-propadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 33.24 | 34.99 | 0.17 | 0.18 |
| 00106-98-9 | 1-butene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00115-11-7 | 2-methylpropene | 11.08 | 11.08 | 0.06 | 0.06 |
| 00590-18-1 | cis-2-butene | 41.99 | 43.16 | 0.22 | 0.22 |
| 00463-82-1 | 2,2-dimethylpropane | 53.40 | 55.80 | 0.27 | 0.28 |
| 00078-78-4 | 2-methylbutane | 6066.94 | 6306.93 | 31.17 | 31.90 |
| 00074-99-7 | 1-propyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 304.44 | 315.52 | 1.56 | 1.60 |
| 00513-35-9 | 2-methyl-2-butene | 408.83 | 424.58 | 2.10 | 2.15 |
| 00109-67-1 | 1-pentene | 124.22 | 129.47 | 0.64 | 0.65 |
| 00563-46-2 | 2-methyl-1-butene | 229.20 | 238.53 | 1.18 | 1.21 |
| 00627-20-3 | cis-2-pentene | 165.63 | 172.63 | 0.85 | 0.87 |
| 00689-97-4 | 1-buten-3-yne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | 14226.90 | 14830.56 | 73.10 | 75.01 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

| | | SR-RFA-3 UG/M3 | SR-RFA-4 UG/M3 | SR-RFA-3 WT% | SR-RFA-4 WT% |
|------------|--------------------------|-------------------|-------------------|-----------------|-----------------|
| 00460-12-8 | 1,3-butadiyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 27.99 | 22.75 | 0.14 | 0.12 |
| 00109-66-0 | n-pentane | 920.36 | 956.36 | 4.73 | 4.84 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-83-2 | 2,2-dimethylbutane | 134.37 | 138.55 | 0.69 | 0.70 |
| 00142-29-0 | cyclopentene | 35.12 | 36.82 | 0.18 | 0.19 |
| 00691-37-2 | 4-methyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 23.89 | 25.68 | 0.12 | 0.13 |
| 00287-92-3 | cyclopentane | 38.49 | 40.24 | 0.20 | 0.20 |
| 00079-29-8 | 2,3-dimethylbutane | 238.27 | 245.44 | 1.22 | 1.24 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 14.29 | 14.29 | 0.07 | 0.07 |
| 01634-04-4 | methyl-tert-butyl-ether | 23.46 | 21.99 | 0.12 | 0.11 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 714.82 | 738.71 | 3.67 | 3.74 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 27.41 | 27.99 | 0.14 | 0.14 |
| 00095-14-0 | 3-methylpentane | 383.99 | 394.14 | 1.97 | 1.99 |
| 00592-41-6 | 1-hexene | 18.66 | 19.25 | 0.10 | 0.10 |
| 00763-29-1 | 2-methyl-1-pentene | 36.74 | 37.91 | 0.19 | 0.19 |
| 00110-54-3 | n-hexane | 267.54 | 272.31 | 1.37 | 1.38 |
| 13269-52-8 | trans-3-hexene | 33.83 | 33.83 | 0.17 | 0.17 |
| 07642-09-3 | cis-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 46.66 | 47.24 | 0.24 | 0.24 |
| 00625-27-4 | 2-methyl-2-pentene | 12.83 | 12.83 | 0.07 | 0.06 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 50.16 | 50.74 | 0.26 | 0.26 |
| 01120-62-3 | 3-methylcyclopentene | 36.43 | 36.43 | 0.19 | 0.18 |
| 07688-21-3 | cis-2-hexene | 25.66 | 25.66 | 0.13 | 0.13 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 116.64 | 117.23 | 0.60 | 0.59 |
| 00108-08-7 | 2,4-dimethylpentane | 102.97 | 101.78 | 0.53 | 0.51 |
| 00464-06-2 | 2,2,3-trimethylbutane | 0.00 | 0.00 | 0.00 | 0.00 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | |
|-------------|---------------------------------------|--------|--------|------|------|
| D0071-43-2 | benzene | 211.65 | 210.57 | 1.09 | 1.07 |
| D3404-61-3 | 3-methyl-1-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0562-49-2 | 3,3-dimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0625-65-0 | 2,4-dimethyl-2-pentene | 8.75 | 0.00 | 0.04 | 0.00 |
| D0110-82-7 | cyclohexane | 21.00 | 20.41 | 0.11 | 0.10 |
| D0692-24-0 | 2-methyl-trans-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| D3683-22-5 | 4-methyl-trans-2-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0591-76-4 | 2-methylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0565-59-3 | 2,3-dimethylpentane | 235.69 | 227.96 | 1.21 | 1.15 |
| D0110-83-8 | cyclohexene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0589-34-4 | 3-methylhexane | 99.99 | 96.42 | 0.51 | 0.49 |
| D1759-58-6 | trans-1,3-dimethylcyclopentane | 20.41 | 19.83 | 0.10 | 0.10 |
| D2532-58-3 | cis-1,3-dimethylcyclopentane | 16.91 | 16.91 | 0.09 | 0.09 |
| D0617-78-7 | 3-ethylpentane | 25.59 | 25.00 | 0.13 | 0.13 |
| D0822-50-4 | trans-1,2-dimethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| D00540-84-1 | 2,2,4-trimethylpentane | 159.70 | 150.80 | 0.82 | 0.76 |
| D0592-76-7 | 1-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| D3899-36-3 | 3-methyl-trans-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 15.16 | 14.00 | 0.08 | 0.07 |
| D0142-82-5 | n-heptane | 58.33 | 55.35 | 0.30 | 0.28 |
| D0107-39-1 | 2,4,4-trimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| D2738-19-4 | 2-methyl-2-hexene | 15.75 | 14.58 | 0.08 | 0.07 |
| 14686-13-5 | trans-2-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0816-79-5 | 3-ethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 12.25 | 11.66 | 0.06 | 0.06 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| D6443-92-1 | cis-2-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0108-87-2 | methylcyclohexane | 32.66 | 30.91 | 0.17 | 0.16 |
| D0590-73-8 | 2,2-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0107-40-4 | 2,4,4-trimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| D1640-89-7 | ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0592-13-2 | 2,5-dimethylhexane | 17.81 | 16.03 | 0.09 | 0.08 |
| D0589-43-5 | 2,4-dimethylhexane | 21.37 | 19.59 | 0.11 | 0.10 |
| D2815-58-9 | 1,2,4-trimethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0563-16-6 | 3,3-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopentan | 0.00 | 0.00 | 0.00 | 0.00 |
| D0565-75-3 | 2,3,4-trimethylpentane | 38.59 | 34.43 | 0.20 | 0.17 |
| D0108-88-3 | toluene | 331.66 | 295.54 | 1.70 | 1.49 |
| D00560-21-4 | 2,3,3-trimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0584-94-1 | 2,3-dimethylhexane | 16.03 | 16.03 | 0.08 | 0.08 |
| D0592-27-8 | 2-methylheptane | 19.59 | 17.22 | 0.10 | 0.09 |
| D0589-53-7 | 4-methylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0583-48-2 | 3,4-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0589-81-1 | 3-methylheptane | 20.78 | 17.22 | 0.11 | 0.09 |
| D0638-04-0 | cis-1,3-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D2207-04-7 | trans-1,4-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D3522-94-9 | 2,2,5-trimethylhexane | 11.26 | 8.89 | 0.06 | 0.04 |
| D2613-65-2 | trans-1-methyl-3-ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0111-66-0 | 1-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0111-65-9 | n-octane | 14.25 | 10.69 | 0.07 | 0.05 |
| 13389-42-9 | trans-2-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| D2207-03-8 | trans-1,3-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D7642-04-8 | cis-2-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| D1069-53-0 | 2,3,5-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D2213-23-2 | 2,4-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| D2207-01-4 | cis-1,2-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D1072-05-5 | 2,6-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| D1678-91-7 | ethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0926-82-9 | 3,5-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0100-41-4 | ethylbenzene | 53.52 | 32.00 | 0.28 | 0.16 |
| D1839-63-0 | 1,3,5-trimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| D3074-71-3 | 2,3-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| D0108-38-3 | m- & p-xylene | 126.91 | 71.73 | 0.65 | 0.36 |
| D2216-34-4 | 4-methyloctane | 11.26 | 0.00 | 0.06 | 0.00 |
| D3221-51-2 | 2-methyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| D2216-33-3 | 3-methyloctane | 8.89 | 0.00 | 0.05 | 0.00 |
| D0100-42-5 | styrene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0095-47-6 | o-xylene | 43.04 | 21.52 | 0.22 | 0.11 |
| 14720-74-2 | 2,2,4-trimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| D6236-88-0 | 1-methyl-4-ethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | |
|------------|--------------------------------------|----------|----------|--------|--------|
| 02091-95-6 | 2,2,5-trimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-11-8 | 1-nonene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 2.97 | 2.37 | 0.02 | 0.01 |
| 04110-44-5 | 3,3-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 0.60 | 0.60 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 0.60 | 0.60 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 19.43 | 13.88 | 0.10 | 0.07 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 26.10 | 9.44 | 0.13 | 0.05 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 11.11 | 4.44 | 0.06 | 0.02 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 13.33 | 5.00 | 0.07 | 0.03 |
| 00871-83-0 | 2-methylnonane | 12.42 | 11.83 | 0.06 | 0.06 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 8.33 | 2.78 | 0.04 | 0.01 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 42.20 | 12.77 | 0.22 | 0.06 |
| 00538-93-2 | (2-methylpropyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 3.55 | 0.00 | 0.02 | 0.00 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 7.77 | 2.78 | 0.04 | 0.01 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 2.18 | 0.00 | 0.01 | 0.00 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 6.14 | 0.00 | 0.03 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 10.05 | 0.00 | 0.05 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 13.95 | 0.00 | 0.07 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 10.60 | 0.00 | 0.05 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 9.49 | 0.00 | 0.05 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 8.93 | 0.00 | 0.05 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 7.25 | 0.00 | 0.04 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 8.93 | 0.00 | 0.05 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenzen | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-63-5 | 2-methylindan | 8.79 | 0.00 | 0.05 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | 5234.10 | 4939.93 | 26.90 | 24.99 |
| NMHC-ST | NMHC Subtotal | 19461.01 | 19770.49 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | S90-RFA-BKG PPBC | S90-RFA-3 PPBC | S90-RFA-3-NET PPBC | S90-RFA-4 PPBC | S90-RFA-4-NET PPBC |
|------------|---------------------|---------------------|-------------------|-----------------------|-------------------|-----------------------|
| 00074-84-0 | ethane | 54 | 55 | 1 | 54 | 0 |
| 00074-85-1 | ethene | 52 | 51 | 0 | 52 | 0 |
| 00074-98-6 | propane | 98 | 118 | 20 | 116 | 18 |
| 00115-07-1 | propene | 21 | 22 | 1 | 22 | 1 |
| 00075-28-5 | methylpropane | 15 | 465 | 450 | 465 | 450 |
| 00074-86-2 | ethyne | 54 | 53 | 0 | 53 | 0 |
| 00106-97-8 | n-butane | 39 | 15900 | 15861 | 15900 | 15861 |
| 00463-49-0 | 1,2-propadiene | 0 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 0 | 80 | 80 | 80 | 80 |
| 00106-98-9 | 1-butene | 0 | 20 | 20 | 20 | 20 |
| 00115-11-7 | 2-methylpropene | 16 | 32 | 16 | 32 | 16 |
| 00590-18-1 | cis-2-butene | 0 | 99 | 99 | 100 | 100 |
| 00463-82-1 | 2,2-dimethylpropane | 0 | 132 | 132 | 133 | 133 |
| 00078-78-4 | 2-methylbutane | 91 | 14100 | 14009 | 14100 | 14009 |
| 00074-99-7 | 1-propyne | 0 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 0 | 650 | 650 | 652 | 652 |
| 00513-35-9 | 2-methyl-2-butene | 0 | 871 | 871 | 871 | 871 |
| 00109-67-1 | 1-pentene | 0 | 278 | 278 | 278 | 278 |
| 00563-46-2 | 2-methyl-1-butene | 0 | 517 | 517 | 517 | 517 |
| 00627-20-3 | cis-2-pentene | 0 | 357 | 357 | 356 | 356 |
| 00689-97-4 | 1-buten-3-yne | 0 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 0 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 0 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 0 | 0 | 0 | 0 | 0 |
| LE-ST | Light End Subtotal | 440.00 | 33800.00 | 33362.00 | 33801.00 | 33362.00 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | S90-RFA-BKG PPBC | PHASE 1 | | PHASE 1 | |
|------------|--------------------------|---------------------|-------------------|-----------------------|-------------------|-----------------------|
| | | | S90-RFA-3 PPBC | S90-RFA-3-NET PPBC | S90-RFA-4 PPBC | S90-RFA-4-NET PPBC |
| 00460-12-8 | 1,3-butadiyne | 0 | 33 | 33 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 0 | 65 | 65 | 53 | 53 |
| 00109-66-0 | n-pentane | 32 | 1990 | 1958 | 1990 | 1958 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 0 | 0 | 0 | 0 | 0 |
| 02004-70-8 | trans-1,3-pentadiene | 0 | 0 | 0 | 0 | 0 |
| 00075-83-2 | 2,2-dimethylbutane | 0 | 290 | 290 | 290 | 290 |
| 00142-29-0 | cyclopentene | 0 | 70 | 70 | 70 | 70 |
| 00691-37-2 | 4-methyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 0 | 50 | 50 | 50 | 50 |
| 00287-92-3 | cyclopentane | 0 | 77 | 77 | 76 | 76 |
| 00079-29-8 | 2,3-dimethylbutane | 0 | 488 | 488 | 485 | 485 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 0 | 29 | 29 | 29 | 29 |
| 01634-04-4 | methyl-tert-butyl-ether | 45 | 104 | 59 | 101 | 56 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 35 | 1450 | 1415 | 1440 | 1405 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 0 | 52 | 52 | 52 | 52 |
| 00096-14-0 | 3-methylpentane | 23 | 768 | 745 | 762 | 739 |
| 00592-41-6 | 1-hexene | 0 | 34 | 34 | 34 | 34 |
| 00763-29-1 | 2-methyl-1-pentene | 0 | 69 | 69 | 69 | 69 |
| 00110-54-3 | n-hexane | 19 | 499 | 480 | 492 | 473 |
| 13269-52-8 | trans-3-hexene | 0 | 60 | 60 | 59 | 59 |
| D7642-09-3 | cis-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 0 | 83 | 83 | 82 | 82 |
| 00625-27-4 | 2-methyl-2-pentene | 0 | 23 | 23 | 23 | 23 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 0 | 91 | 91 | 89 | 89 |
| 01120-62-3 | 3-methylcyclopentene | 0 | 67 | 67 | 66 | 66 |
| 07688-21-3 | cis-2-hexene | 0 | 45 | 45 | 44 | 44 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 0 | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 20 | 228 | 208 | 223 | 203 |
| 00108-08-7 | 2,4-dimethylpentane | 30 | 190 | 160 | 184 | 154 |
| 00464-06-2 | 2,2,3-trimethylbutane | 0 | 30 | 30 | 30 | 30 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|---------------------------------------|-----|-----|-----|-----|-----|
| 00071-43-2 | benzene | 28 | 309 | 281 | 301 | 273 |
| 03404-61-3 | 3-methyl-1-hexene | 0 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 0 | 15 | 15 | 15 | 15 |
| 00110-82-7 | cyclohexane | 0 | 36 | 36 | 36 | 36 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 0 | 0 | 0 | 0 | 0 |
| 00591-76-4 | 2-methylhexane | 0 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 28 | 406 | 378 | 386 | 358 |
| 00110-83-8 | cyclohexene | 0 | 0 | 0 | 0 | 0 |
| 00589-34-4 | 3-methylhexane | 0 | 168 | 168 | 159 | 159 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 0 | 35 | 35 | 33 | 33 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 0 | 29 | 29 | 27 | 27 |
| 00617-78-7 | 3-ethylpentane | 0 | 43 | 43 | 40 | 40 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 23 | 288 | 265 | 267 | 244 |
| 00592-76-7 | 1-heptene | 0 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 14686-14-7 | trans-3-heptene | 0 | 23 | 23 | 21 | 21 |
| 00142-82-5 | n-heptane | 0 | 90 | 90 | 84 | 84 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 0 | 0 | 0 | 0 | 0 |
| 02738-19-4 | 2-methyl-2-hexene | 0 | 23 | 23 | 21 | 21 |
| 14686-13-6 | trans-2-heptene | 0 | 0 | 0 | 0 | 0 |
| 00816-79-5 | 3-ethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 0 | 17 | 17 | 16 | 16 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 0 | 0 | 0 | 0 | 0 |
| 00108-87-2 | methylcyclohexane | 0 | 52 | 52 | 49 | 49 |
| 00590-73-8 | 2,2-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00592-13-2 | 2,5-dimethylhexane | 0 | 29 | 29 | 26 | 26 |
| 00589-43-5 | 2,4-dimethylhexane | 0 | 35 | 35 | 31 | 31 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00563-16-6 | 3,3-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopentan | 0 | 0 | 0 | 0 | 0 |
| 00565-75-3 | 2,3,4-trimethylpentane | 0 | 60 | 60 | 52 | 52 |
| 00108-88-3 | toluene | 121 | 392 | 271 | 355 | 234 |
| 00560-21-4 | 2,3,3-trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 0 | 27 | 27 | 24 | 24 |
| 00592-27-8 | 2-methylheptane | 0 | 29 | 29 | 25 | 25 |
| 00589-53-7 | 4-methylheptane | 0 | 0 | 0 | 0 | 0 |
| 00583-48-2 | 3,4-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 00589-81-1 | 3-methylheptane | 0 | 30 | 30 | 25 | 25 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0 | 17 | 17 | 0 | 0 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00111-66-0 | 1-octene | 0 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 0 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0 | 18 | 18 | 15 | 15 |
| 13389-42-9 | trans-2-octene | 0 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 16747-30-1 | 2,4,4-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 0 | 0 | 0 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 01678-91-7 | ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 00100-41-4 | ethylbenzene | 25 | 48 | 23 | 38 | 13 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 00108-38-3 | m- & p-xylene | 83 | 131 | 48 | 107 | 24 |
| 02216-34-4 | 4-methyloctane | 0 | 0 | 0 | 0 | 0 |
| 03221-61-2 | 2-methyloctane | 0 | 0 | 0 | 0 | 0 |
| 02216-33-3 | 3-methyloctane | 0 | 0 | 0 | 0 | 0 |
| 00100-42-5 | styrene | 15 | 16 | 1 | 15 | 0 |
| 00095-47-6 | o-xylene | 36 | 50 | 14 | 41 | 5 |
| 14720-74-2 | 2,2,4-trimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|--------------------------------------|---------|----------|----------|----------|----------|
| 02091-95-6 | 2,2,5-trimethylheptane | 0 | 18 | 18 | 16 | 16 |
| 00124-11-8 | 1-nonene | 0 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 27 | 30 | 3 | 28 | 1 |
| 04110-44-5 | 3,3-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 00098-82-8 | (1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 04032-94-4 | 2,4-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 00103-65-1 | n-propylbenzene | 0 | 15 | 15 | 0 | 0 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 28 | 33 | 5 | 25 | 0 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 0 | 15 | 15 | 0 | 0 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 20 | 22 | 2 | 18 | 0 |
| 00871-83-0 | 2-methylnonane | 0 | 0 | 0 | 0 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 16 | 16 | 0 | 0 | 0 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 57 | 62 | 5 | 49 | 0 |
| 00538-93-2 | (2-methylpropyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 35 | 37 | 2 | 51 | 16 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 0 | 15 | 15 | 19 | 19 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00141-93-5 | 1,3-diethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00105-05-5 | 1,4-diethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00135-01-3 | 1,2-diethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 0 | 0 | 0 | 0 | 0 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenzen | 0 | 0 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 0 | 0 | 0 | 0 | 0 |
| 00824-22-6 | 4-methylindan | 0 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 0 | 0 | 0 | 0 | 0 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00538-68-1 | n-pentylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 0 | 0 | 0 | 0 | 0 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzene | 0 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | 746.00 | 9564.00 | 8818.00 | 9208.00 | 8491.00 |
| NMHC-ST | NMHC Subtotal | 1186.00 | 43364.00 | 42180.00 | 43009.00 | 41853.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

| | | S90-RFA-3 UG/M3 | S90-RFA-4 UG/M3 | S90-RFA-3 WT% | S90-RFA-4 WT% |
|------------|---------------------|--------------------|--------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.63 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 12.22 | 11.00 | 0.05 | 0.04 |
| 00115-07-1 | propene | 0.58 | 0.58 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 271.87 | 271.87 | 1.08 | 1.08 |
| 00074-86-2 | ethyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 9582.66 | 9582.66 | 37.94 | 38.23 |
| 00463-49-0 | 1,2-propadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 46.66 | 46.66 | 0.18 | 0.19 |
| 00106-98-9 | 1-butene | 11.66 | 11.66 | 0.05 | 0.05 |
| 00115-11-7 | 2-methylpropene | 9.33 | 9.33 | 0.04 | 0.04 |
| 00590-18-1 | cis-2-butene | 57.74 | 58.32 | 0.23 | 0.23 |
| 00463-82-1 | 2,2-dimethylpropane | 79.20 | 79.80 | 0.31 | 0.32 |
| 00078-78-4 | 2-methylbutane | 8405.04 | 8405.04 | 33.28 | 33.53 |
| 00074-99-7 | 1-propyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 379.09 | 380.25 | 1.50 | 1.52 |
| 00513-35-9 | 2-methyl-2-butene | 507.98 | 507.98 | 2.01 | 2.03 |
| 00109-67-4 | 1-pentene | 162.13 | 162.13 | 0.64 | 0.65 |
| 00563-46-2 | 2-methyl-1-butene | 301.52 | 301.52 | 1.19 | 1.20 |
| 00627-20-3 | cis-2-pentene | 208.21 | 207.62 | 0.82 | 0.83 |
| 00689-97-4 | 1-buten-3-yne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | 20036.51 | 20036.43 | 79.34 | 79.93 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | S90-RFA-3 UG/M3 | S90-RFA-4 UG/M3 | S90-RFA-3 WT% | S90-RFA-4 WT% |
|------------|--------------------------|--------------------|--------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 17.17 | 0.00 | 0.07 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 37.91 | 30.91 | 0.15 | 0.12 |
| 00109-66-0 | n-pentane | 1174.75 | 1174.75 | 4.65 | 4.69 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-63-2 | 2,2-dimethylbutane | 173.18 | 173.18 | 0.69 | 0.69 |
| 00142-29-0 | cyclopentene | 39.65 | 39.65 | 0.16 | 0.16 |
| 00691-37-2 | 4-methyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 29.86 | 29.86 | 0.12 | 0.12 |
| 00287-92-3 | cyclopentane | 44.91 | 44.32 | 0.18 | 0.18 |
| 00079-29-8 | 2,3-dimethylbutane | 291.42 | 289.63 | 1.15 | 1.16 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 15.94 | 15.94 | 0.06 | 0.06 |
| 01634-04-4 | methyl-tert-butyl-ether | 43.25 | 41.05 | 0.17 | 0.16 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-63-5 | 2-methylpentane | 845.01 | 839.04 | 3.35 | 3.35 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 30.33 | 30.33 | 0.12 | 0.12 |
| 00096-14-0 | 3-methylpentane | 444.90 | 441.32 | 1.76 | 1.76 |
| 00592-41-6 | 1-hexene | 19.83 | 19.83 | 0.08 | 0.08 |
| 00763-29-1 | 2-methyl-1-pentene | 40.24 | 40.24 | 0.16 | 0.16 |
| 00110-54-3 | n-hexane | 286.65 | 282.47 | 1.14 | 1.13 |
| 13269-52-8 | trans-3-hexene | 34.99 | 34.41 | 0.14 | 0.14 |
| 07642-09-3 | cis-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 48.41 | 47.82 | 0.19 | 0.19 |
| 00625-27-4 | 2-methyl-2-pentene | 13.41 | 13.41 | 0.05 | 0.05 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 53.07 | 51.91 | 0.21 | 0.21 |
| 01120-62-3 | 3-methylcyclopentene | 38.14 | 37.57 | 0.15 | 0.15 |
| 07688-21-3 | cis-2-hexene | 26.24 | 25.66 | 0.10 | 0.10 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 121.31 | 118.39 | 0.48 | 0.47 |
| 00108-08-7 | 2,4-dimethylpentane | 95.23 | 91.66 | 0.38 | 0.37 |
| 00464-06-2 | 2,2,3-trimethylbutane | 17.86 | 17.86 | 0.07 | 0.07 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | |
|------------|---------------------------------------|--------|--------|------|------|
| 00071-43-2 | benzene | 152.11 | 147.78 | 0.60 | 0.59 |
| 03404-61-3 | 3-methyl-1-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 8.75 | 8.75 | 0.03 | 0.03 |
| 00110-82-7 | cyclohexane | 21.00 | 21.00 | 0.08 | 0.08 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00591-76-4 | 2-methylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 224.98 | 213.08 | 0.89 | 0.85 |
| 00110-83-8 | cyclohexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-34-4 | 3-methylhexane | 99.99 | 94.63 | 0.40 | 0.38 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 20.41 | 19.25 | 0.08 | 0.08 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 16.91 | 15.75 | 0.07 | 0.06 |
| 00617-78-7 | 3-ethylpentane | 25.59 | 23.81 | 0.10 | 0.09 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 157.33 | 144.86 | 0.62 | 0.58 |
| 00592-76-7 | 1-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 13.41 | 12.25 | 0.05 | 0.05 |
| 00142-82-5 | n-heptane | 53.57 | 50.00 | 0.21 | 0.20 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02738-19-4 | 2-methyl-2-hexene | 13.41 | 12.25 | 0.05 | 0.05 |
| 14686-13-6 | trans-2-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00816-79-5 | 3-ethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 9.91 | 9.33 | 0.04 | 0.04 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00108-87-2 | methylcyclohexane | 30.33 | 28.58 | 0.12 | 0.11 |
| 00590-73-8 | 2,2-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00592-13-2 | 2,5-dimethylhexane | 17.22 | 15.44 | 0.07 | 0.06 |
| 00589-43-5 | 2,4-dimethylhexane | 20.78 | 18.40 | 0.08 | 0.07 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-16-6 | 3,3-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopentan | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-75-3 | 2,3,4-trimethylpentane | 35.62 | 30.87 | 0.14 | 0.12 |
| 00108-88-3 | toluene | 148.32 | 128.07 | 0.59 | 0.51 |
| 00560-21-4 | 2,3,3-trimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 16.03 | 14.25 | 0.06 | 0.06 |
| 00592-27-8 | 2-methylheptane | 17.22 | 14.84 | 0.07 | 0.06 |
| 00589-53-7 | 4-methylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00583-48-2 | 3,4-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 17.81 | 14.84 | 0.07 | 0.06 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 10.07 | 0.00 | 0.04 | 0.00 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 10.69 | 8.91 | 0.04 | 0.04 |
| 13389-42-9 | trans-2-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 01678-91-7 | ethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-41-4 | ethylbenzene | 12.69 | 7.17 | 0.05 | 0.03 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00108-38-3 | m- & p-xylene | 26.49 | 13.24 | 0.10 | 0.05 |
| 02216-34-4 | 4-methyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 03221-61-2 | 2-methyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-42-5 | styrene | 0.54 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 7.72 | 2.76 | 0.03 | 0.01 |
| 14720-74-2 | 2,2,4-trimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-D | 1-methyl-4-ethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |

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| D2091-95-6 | 2,2,5-trimethylheptane | 10.65 | 9.47 | 0.04 | 0.04 |
| 00124-11-8 | 1-nonene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 1.78 | 0.59 | 0.01 | 0.00 |
| 04110-44-5 | 3,3-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00103-65-1 | n-propylbenzene | 8.33 | 0.00 | 0.03 | 0.00 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 2.78 | 0.00 | 0.01 | 0.00 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 8.33 | 0.00 | 0.03 | 0.00 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 1.11 | 0.00 | 0.00 | 0.00 |
| 00871-83-0 | 2-methylnonane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 2.78 | 0.00 | 0.01 | 0.00 |
| 00538-93-2 | (2-methylpropyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 1.18 | 9.47 | 0.00 | 0.04 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 8.19 | 10.37 | 0.03 | 0.04 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00141-93-5 | 1,3-diethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00105-05-5 | 1,4-diethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-01-3 | 1,2-diethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 0.00 | 0.00 | 0.00 | 0.00 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenzen | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-22-6 | 4-methylindan | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 0.00 | 0.00 | 0.00 | 0.00 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00538-68-1 | n-pentylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00091-20-3 | naphthalene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00112-40-3 | n-dodecane | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | 5217.67 | 5031.18 | 20.66 | 20.07 |
| NMHC-ST | NMHC Subtotal | 25254.19 | 25067.61 | 100.00 | 100.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

| CAS # | COMPOUND | S10-RFA-BKG | S10-RFA-3 | S10-RFA-3-NET | S10-RFA-4 | S10-RFA-4-NET |
|------------|---------------------|-------------|-----------|---------------|-----------|---------------|
| | | PPBC | PPBC | PPBC | PPBC | PPBC |
| 00074-84-0 | ethane | 32 | 31 | 0 | 31 | 0 |
| 00074-85-1 | ethene | 60 | 61 | 1 | 60 | 0 |
| 00074-98-6 | propane | 164 | 175 | 11 | 174 | 10 |
| 00115-07-1 | propene | 23 | 24 | 1 | 23 | 0 |
| 00075-28-5 | methylpropane | 69 | 317 | 248 | 316 | 247 |
| 00074-86-2 | ethyne | 55 | 53 | 0 | 54 | 0 |
| 00106-97-8 | n-butane | 110 | 8200 | 8090 | 8240 | 8130 |
| 00463-49-0 | 1,2-propadiene | 0 | 0 | 0 | 0 | 0 |
| 00624-64-6 | trans-2-butene | 0 | 41 | 41 | 41 | 41 |
| 00106-98-9 | 1-butene | 0 | 0 | 0 | 0 | 0 |
| 00115-11-7 | 2-methylpropene | 19 | 28 | 9 | 29 | 10 |
| 00590-18-1 | cis-2-butene | 0 | 51 | 51 | 50 | 50 |
| 00463-82-1 | 2,2-dimethylpropane | 0 | 76 | 76 | 75 | 75 |
| 00078-78-4 | 2-methylbutane | 93 | 7140 | 7047 | 7170 | 7077 |
| 00074-99-7 | 1-propyne | 0 | 0 | 0 | 0 | 0 |
| 00590-19-2 | 1,2-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00106-99-0 | 1,3-butadiene | 0 | 0 | 0 | 0 | 0 |
| 00646-04-8 | trans-2-pentene | 0 | 306 | 306 | 307 | 307 |
| 00513-35-9 | 2-methyl-2-butene | 0 | 409 | 409 | 414 | 414 |
| 00109-67-1 | 1-pentene | 0 | 135 | 135 | 136 | 136 |
| 00563-46-2 | 2-methyl-1-butene | 0 | 251 | 251 | 253 | 253 |
| 00627-20-3 | cis-2-pentene | 0 | 167 | 167 | 170 | 170 |
| 00689-97-4 | 1-buten-3-yne | 0 | 0 | 0 | 0 | 0 |
| 00503-17-3 | 2-butyne | 0 | 0 | 0 | 0 | 0 |
| 00107-00-6 | 1-butyne | 0 | 0 | 0 | 0 | 0 |
| 00542-92-7 | 1,3-cyclopentadiene | 0 | 0 | 0 | 0 | 0 |
| LE-ST | Light End Subtotal | 625.00 | 17465.00 | 16843.00 | 17543.00 | 16920.00 |

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

| CAS # | COMPOUND | PHASE 1 | PHASE 1 | PHASE 1 | PHASE 1 |
|------------|--------------------------|-------------|-----------|---------------|-----------|
| | | S10-RFA-BKG | S10-RFA-3 | S10-RFA-3-NET | S10-RFA-4 |
| | | PPBC | PPBC | PPBC | PPBC |
| 00460-12-8 | 1,3-butadiyne | 0 | 0 | 0 | 0 |
| 00563-45-1 | 3-methyl-1-butene | 0 | 29 | 29 | 27 |
| 00109-66-0 | n-pentane | 32 | 1030 | 998 | 999 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 0 | 0 | 0 | 0 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 0 | 0 | 0 | 0 |
| 02004-70-8 | trans-1,3-pentadiene | 0 | 0 | 0 | 0 |
| 00075-83-2 | 2,2-dimethylbutane | 0 | 163 | 163 | 158 |
| 00142-29-0 | cyclopentene | 0 | 36 | 36 | 35 |
| 00691-37-2 | 4-methyl-1-pentene | 0 | 0 | 0 | 0 |
| 00760-20-3 | 3-methyl-1-pentene | 0 | 27 | 27 | 25 |
| 00287-92-3 | cyclopentane | 0 | 40 | 40 | 39 |
| 00079-29-8 | 2,3-dimethylbutane | 0 | 267 | 267 | 262 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 0 | 0 | 0 | 0 |
| D1634-04-4 | methyl-tert-butyl-ether | 43 | 137 | 94 | 142 |
| D0691-38-3 | 4-methyl-cis-2-pentene | 0 | 0 | 0 | 0 |
| 00107-83-5 | 2-methylpentane | 42 | 778 | 736 | 766 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 0 | 28 | 28 | 31 |
| 00096-14-0 | 3-methylpentane | 30 | 420 | 390 | 414 |
| 00592-41-6 | 1-hexene | 0 | 20 | 20 | 18 |
| 00763-29-1 | 2-methyl-1-pentene | 0 | 37 | 37 | 36 |
| 00110-54-3 | n-hexane | 30 | 273 | 243 | 274 |
| 13269-52-8 | trans-3-hexene | 0 | 31 | 31 | 32 |
| 07642-09-3 | cis-3-hexene | 0 | 0 | 0 | 0 |
| 04050-45-7 | trans-2-hexene | 0 | 43 | 43 | 44 |
| 00625-27-4 | 2-methyl-2-pentene | 0 | 0 | 0 | 0 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 0 | 47 | 47 | 48 |
| 01120-62-3 | 3-methylcyclopentene | 0 | 35 | 35 | 36 |
| 07688-21-3 | cis-2-hexene | 0 | 23 | 23 | 23 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 0 | 0 | 0 | 0 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 0 | 0 | 0 | 0 |
| 00590-35-2 | 2,2-dimethylpentane | 0 | 0 | 0 | 0 |
| 00096-37-7 | methylcyclopentane | 25 | 131 | 106 | 132 |
| 00108-08-7 | 2,4-dimethylpentane | 0 | 112 | 112 | 114 |
| 00464-06-2 | 2,2,3-trimethylbutane | 0 | 0 | 0 | 0 |
| 07385-78-6 | 3,4-dimethyl-1-pentene | 0 | 0 | 0 | 0 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 0 | 0 | 0 | 0 |
| 00693-89-0 | 1-methylcyclopentene | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|---------------------------------------|-----|-----|-----|-----|-----|
| 00071-43-2 | benzene | 32 | 206 | 174 | 213 | 181 |
| 03404-61-3 | 3-methyl-1-hexene | 0 | 0 | 0 | 0 | 0 |
| 00562-49-2 | 3,3-dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 00110-82-7 | cyclohexane | 0 | 22 | 22 | 23 | 23 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 0 | 0 | 0 | 0 | 0 |
| 00591-76-4 | 2-methylhexane | 0 | 0 | 0 | 0 | 0 |
| 00565-59-3 | 2,3-dimethylpentane | 18 | 246 | 228 | 256 | 238 |
| 00110-83-8 | cyclohexene | 0 | 0 | 0 | 0 | 0 |
| 00589-34-4 | 3-methylhexane | 16 | 101 | 85 | 106 | 90 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 0 | 21 | 21 | 22 | 22 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 0 | 18 | 18 | 19 | 19 |
| 00617-78-7 | 3-ethylpentane | 0 | 26 | 26 | 28 | 28 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00540-84-1 | 2,2,4-trimethylpentane | 24 | 185 | 161 | 194 | 170 |
| 00592-76-7 | 1-heptene | 0 | 0 | 0 | 0 | 0 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 0 | 0 | 0 | 0 | 0 |
| 14686-14-7 | trans-3-heptene | 0 | 0 | 0 | 15 | 15 |
| 00142-82-5 | n-heptane | 0 | 56 | 56 | 60 | 60 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 0 | 0 | 0 | 15 | 15 |
| 02738-19-4 | 2-methyl-2-hexene | 0 | 0 | 0 | 0 | 0 |
| 14686-13-6 | trans-2-heptene | 0 | 0 | 0 | 0 | 0 |
| 00816-79-5 | 3-ethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 0 | 0 | 0 | 0 | 0 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 06443-92-1 | cis-2-heptene | 0 | 0 | 0 | 0 | 0 |
| 00108-87-2 | methylcyclohexane | 0 | 37 | 37 | 37 | 37 |
| 00590-73-8 | 2,2-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 0 | 0 | 0 | 0 | 0 |
| 01640-89-7 | ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00592-13-2 | 2,5-dimethylhexane | 0 | 20 | 20 | 21 | 21 |
| 00589-43-5 | 2,4-dimethylhexane | 0 | 23 | 23 | 25 | 25 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00563-16-6 | 3,3-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopentan | 0 | 0 | 0 | 0 | 0 |
| 00565-75-3 | 2,3,4-trimethylpentane | 0 | 43 | 43 | 46 | 46 |
| 00108-88-3 | toluene | 306 | 588 | 282 | 628 | 322 |
| 00560-21-4 | 2,3,3-trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 00584-94-1 | 2,3-dimethylhexane | 0 | 19 | 19 | 22 | 22 |
| 00592-27-8 | 2-methylheptane | 0 | 21 | 21 | 23 | 23 |
| 00589-53-7 | 4-methylheptane | 0 | 0 | 0 | 0 | 0 |
| 00583-48-2 | 3,4-dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 00589-81-1 | 3-methylheptane | 0 | 22 | 22 | 24 | 24 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 00111-66-0 | 1-octene | 0 | 0 | 0 | 0 | 0 |
| 16747-26-5 | 2,2,4-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 14850-23-8 | trans-4-octene | 0 | 0 | 0 | 0 | 0 |
| 00111-65-9 | n-octane | 0 | 0 | 0 | 17 | 17 |
| 13389-42-9 | trans-2-octene | 0 | 0 | 0 | 0 | 0 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 16747-30-1 | 2,4,4-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 07642-04-8 | cis-2-octene | 0 | 0 | 0 | 0 | 0 |
| 01069-53-0 | 2,3,5-trimethylhexane | 0 | 0 | 0 | 0 | 0 |
| 02213-23-2 | 2,4-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 01072-05-5 | 2,6-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 01678-91-7 | ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 00926-82-9 | 3,5-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 00100-41-4 | ethylbenzene | 37 | 70 | 33 | 89 | 52 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 03074-71-3 | 2,3-dimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 00108-38-3 | m- & p-xylene | 116 | 189 | 73 | 244 | 128 |
| 02216-34-4 | 4-methyloctane | 0 | 17 | 17 | 19 | 19 |
| 03221-61-2 | 2-methyloctane | 0 | 0 | 0 | 0 | 0 |
| 02216-33-3 | 3-methyloctane | 0 | 16 | 16 | 17 | 17 |
| 00100-42-5 | styrene | 0 | 0 | 0 | 0 | 0 |
| 00095-47-6 | o-xylene | 57 | 78 | 21 | 101 | 44 |
| 14720-74-2 | 2,2,4-trimethylheptane | 0 | 0 | 0 | 0 | 0 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|------------|--------------------------------------|---------|----------|----------|----------|----------|
| 02091-95-6 | 2,2,5-trimethylheptane | 23 | 25 | 2 | 26 | 3 |
| 00124-11-8 | 1-nonene | 0 | 0 | 0 | 0 | 0 |
| 00111-84-2 | n-nonane | 56 | 61 | 5 | 65 | 9 |
| D4110-44-5 | 3,3-dimethyloctane | 21 | 21 | 0 | 21 | 0 |
| D0098-82-8 | (1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 07146-60-3 | 2,3-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 15869-87-1 | 2,2-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 15869-89-3 | 2,5-dimethyloctane | 25 | 26 | 1 | 26 | 1 |
| 04032-94-4 | 2,4-dimethyloctane | 0 | 0 | 0 | 0 | 0 |
| 02051-30-1 | 2,6-dimethyloctane | 27 | 28 | 1 | 29 | 2 |
| 00103-65-1 | n-propylbenzene | 32 | 20 | 0 | 43 | 11 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 54 | 56 | 2 | 86 | 32 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 24 | 25 | 1 | 39 | 15 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 44 | 46 | 2 | 61 | 17 |
| 00871-83-0 | 2-methylnonane | 60 | 65 | 5 | 59 | 0 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 30 | 28 | 0 | 39 | 9 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 20 | 21 | 1 | 150 | 130 |
| 00538-93-2 | (2-methylpropyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00135-98-8 | (1-methylpropyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00124-18-5 | n-decane | 98 | 111 | 13 | 118 | 20 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 31 | 27 | 0 | 41 | 10 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 0 | 0 | 0 | 0 | 0 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 30 | 33 | 3 | 34 | 4 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 16 | 17 | 1 | 18 | 2 |
| 00141-93-5 | 1,3-diethylbenzene | 0 | 0 | 0 | 15 | 15 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 31 | 29 | 0 | 41 | 10 |
| 00105-05-5 | 1,4-diethylbenzene | 17 | 0 | 0 | 24 | 7 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 23 | 19 | 0 | 32 | 9 |
| 00135-01-3 | 1,2-diethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 24 | 23 | 0 | 28 | 4 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 17 | 15 | 0 | 21 | 4 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 16 | 0 | 0 | 15 | 0 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 33 | 27 | 0 | 44 | 11 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01120-21-4 | n-undecane (hendecane) | 21 | 43 | 22 | 28 | 7 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 15 | 0 | 0 | 20 | 5 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 22 | 17 | 0 | 28 | 6 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenzen | 0 | 0 | 0 | 0 | 0 |
| 00874-35-1 | 5-methylindan | 16 | 0 | 0 | 20 | 4 |
| 00824-22-6 | 4-methylindan | 0 | 0 | 0 | 0 | 0 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00824-63-5 | 2-methylindan | 18 | 0 | 0 | 22 | 4 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 0 | 0 | 0 | 15 | 15 |
| 00538-68-1 | n-pentylbenzene | 0 | 0 | 0 | 0 | 0 |
| 01595-11-5 | 1-methyl-2-n-butylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00091-20-3 | naphthalene | 18 | 16 | 0 | 19 | 1 |
| 00098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzene | 0 | 0 | 0 | 0 | 0 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 0 | 0 | 0 | 0 | 0 |
| 00112-40-3 | n-dodecane | 0 | 0 | 0 | 0 | 0 |
| MR-ST | Mid-Range Subtotal | 1670.00 | 6530.00 | 4982.00 | 7146.00 | 5478.00 |
| NMHC-ST | NMHC Subtotal | 2295.00 | 23995.00 | 21825.00 | 24689.00 | 22398.00 |

LIGHT END HYDROCARBONS (MLD METHOD #)

| CAS # | COMPOUND | S10-RFA-3 UG/M3 | S10-RFA-4 UG/M3 | S10-RFA-3 WT% | S10-RFA-4 WT% |
|------------|---------------------|--------------------|--------------------|------------------|------------------|
| 00074-84-0 | ethane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00074-85-1 | ethene | 0.58 | 0.00 | 0.00 | 0.00 |
| 00074-98-6 | propane | 6.72 | 6.11 | 0.05 | 0.05 |
| 00115-07-1 | propene | 0.58 | 0.00 | 0.00 | 0.00 |
| 00075-28-5 | methylpropane | 149.83 | 149.23 | 1.15 | 1.11 |
| 00074-86-2 | ethyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-97-8 | n-butane | 4887.70 | 4911.86 | 37.41 | 36.69 |
| 00463-49-0 | 1,2-propadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00624-64-6 | trans-2-butene | 23.91 | 23.91 | 0.18 | 0.18 |
| 00106-98-9 | 1-butene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00115-11-7 | 2-methylpropene | 5.25 | 5.83 | 0.04 | 0.04 |
| 00590-18-1 | cis-2-butene | 29.74 | 29.16 | 0.23 | 0.22 |
| 00463-82-1 | 2,2-dimethylpropane | 45.60 | 45.00 | 0.35 | 0.34 |
| 00078-78-4 | 2-methylbutane | 4228.02 | 4246.02 | 32.36 | 31.71 |
| 00074-99-7 | 1-propyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-19-2 | 1,2-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00106-99-0 | 1,3-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00646-04-8 | trans-2-pentene | 178.46 | 179.05 | 1.37 | 1.34 |
| 00513-35-9 | 2-methyl-2-butene | 238.53 | 241.45 | 1.83 | 1.80 |
| 00109-67-1 | 1-pentene | 78.73 | 79.32 | 0.60 | 0.59 |
| 00563-46-2 | 2-methyl-1-butene | 146.39 | 147.55 | 1.12 | 1.10 |
| 00627-20-3 | cis-2-pentene | 97.40 | 99.15 | 0.75 | 0.74 |
| 00689-97-4 | 1-buten-3-yne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00503-17-3 | 2-butyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-00-6 | 1-butyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00542-92-7 | 1,3-cyclopentadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| LE-ST | Light End Subtotal | 10117.45 | 10163.63 | 77.43 | 75.91 |

MID-RANGE HYDROCARBONS (METHOD #1003)

| CAS # | COMPOUND | S10-RFA-3 UG/M3 | S10-RFA-4 UG/M3 | S10-RFA-3 WT% | S10-RFA-4 WT% |
|------------|--------------------------|--------------------|--------------------|------------------|------------------|
| 00460-12-8 | 1,3-butadiyne | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-45-1 | 3-methyl-1-butene | 16.91 | 15.75 | 0.13 | 0.12 |
| 00109-66-0 | n-pentane | 598.77 | 580.17 | 4.58 | 4.33 |
| 00078-79-5 | 2-methyl-1,3-butadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00558-37-2 | 3,3-dimethyl-1-butene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02004-70-8 | trans-1,3-pentadiene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00075-83-2 | 2,2-dimethylbutane | 97.34 | 94.35 | 0.74 | 0.70 |
| 00142-29-0 | cyclopentene | 20.39 | 19.83 | 0.16 | 0.15 |
| 00691-37-2 | 4-methyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00760-20-3 | 3-methyl-1-pentene | 16.12 | 14.93 | 0.12 | 0.11 |
| 00287-92-3 | cyclopentane | 23.33 | 22.75 | 0.18 | 0.17 |
| 00079-29-8 | 2,3-dimethylbutane | 159.45 | 156.46 | 1.22 | 1.17 |
| 00563-78-0 | 2,3-dimethyl-1-butene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01634-04-4 | methyl-tert-butyl-ether | 68.90 | 72.57 | 0.53 | 0.54 |
| 00691-38-3 | 4-methyl-cis-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-83-5 | 2-methylpentane | 439.52 | 432.36 | 3.36 | 3.23 |
| 00674-76-0 | 4-methyl-trans-2-pentene | 16.33 | 18.08 | 0.12 | 0.14 |
| 00096-14-0 | 3-methylpentane | 232.90 | 229.32 | 1.78 | 1.71 |
| 00592-41-6 | 1-hexene | 11.66 | 10.50 | 0.09 | 0.08 |
| 00763-29-1 | 2-methyl-1-pentene | 21.58 | 21.00 | 0.17 | 0.16 |
| 00110-54-3 | n-hexane | 145.11 | 145.71 | 1.11 | 1.09 |
| 13269-52-8 | trans-3-hexene | 18.08 | 18.66 | 0.14 | 0.14 |
| 07642-09-3 | cis-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 04050-45-7 | trans-2-hexene | 25.08 | 25.66 | 0.19 | 0.19 |
| 00625-27-4 | 2-methyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00616-12-6 | 3-methyl-trans-2-pentene | 27.41 | 27.99 | 0.21 | 0.21 |
| 01120-62-3 | 3-methylcyclopentene | 19.92 | 20.49 | 0.15 | 0.15 |
| 07688-21-3 | cis-2-hexene | 13.41 | 13.41 | 0.10 | 0.10 |
| 00922-62-3 | 3-methyl-cis-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00637-92-3 | 1-ethyl-tert-butyl-ether | 0.00 | 0.00 | 0.00 | 0.00 |
| 00590-35-2 | 2,2-dimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00096-37-7 | methylcyclopentane | 61.82 | 62.40 | 0.47 | 0.47 |
| 00108-08-7 | 2,4-dimethylpentane | 66.66 | 67.85 | 0.51 | 0.51 |
| 00464-06-2 | 2,2,3-trimethylbutane | 0.00 | 0.00 | 0.00 | 0.00 |
| D7385-78-6 | 3,4-dimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-32-3 | 2,4-dimethyl-1-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00693-89-0 | 1-methylcyclopentene | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | |
|------------|---------------------------------------|--------|--------|------|------|
| 00071-43-2 | benzene | 94.19 | 97.98 | 0.72 | 0.73 |
| 03404-61-3 | 3-methyl-1-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00562-49-2 | 3,3-dimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00625-65-0 | 2,4-dimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00110-82-7 | cyclohexane | 12.83 | 13.41 | 0.10 | 0.10 |
| 00692-24-0 | 2-methyl-trans-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 03683-22-5 | 4-methyl-trans-2-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00591-76-4 | 2-methylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-59-3 | 2,3-dimethylpentane | 135.70 | 141.65 | 1.04 | 1.06 |
| 00110-83-8 | cyclohexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-34-4 | 3-methylhexane | 50.59 | 53.57 | 0.39 | 0.40 |
| 01759-58-6 | trans-1,3-dimethylcyclopentane | 12.25 | 12.83 | 0.09 | 0.10 |
| 02532-58-3 | cis-1,3-dimethylcyclopentane | 10.50 | 11.08 | 0.08 | 0.08 |
| 00617-78-7 | 3-ethylpentane | 15.47 | 16.67 | 0.12 | 0.12 |
| 00822-50-4 | trans-1,2-dimethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00540-84-1 | 2,2,4-trimethylpentane | 95.58 | 100.93 | 0.73 | 0.75 |
| 00592-76-7 | 1-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| 03899-36-3 | 3-methyl-trans-3-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-14-7 | trans-3-heptene | 0.00 | 8.75 | 0.00 | 0.07 |
| 00142-82-5 | n-heptane | 33.33 | 35.71 | 0.26 | 0.27 |
| 00107-39-1 | 2,4,4-trimethyl-1-pentene | 0.00 | 8.75 | 0.00 | 0.07 |
| 02738-19-4 | 2-methyl-2-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 14686-13-6 | trans-2-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00816-79-5 | 3-ethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-36-4 | 3-methyl-cis-2-hexene | 0.00 | 0.00 | 0.00 | 0.00 |
| 10574-37-5 | 2,3-dimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 06443-92-1 | cis-2-heptene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00108-87-2 | methylcyclohexane | 21.58 | 21.58 | 0.17 | 0.16 |
| 00590-73-8 | 2,2-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00107-40-4 | 2,4,4-trimethyl-2-pentene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01640-89-7 | ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00592-13-2 | 2,5-dimethylhexane | 11.87 | 12.47 | 0.09 | 0.09 |
| 00589-43-5 | 2,4-dimethylhexane | 13.65 | 14.84 | 0.10 | 0.11 |
| 02815-58-9 | 1,2,4-trimethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00563-16-6 | 3,3-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15890-40-1 | (1a,2a,3b)-1,2,3-trimethylcyclopentan | 0.00 | 0.00 | 0.00 | 0.00 |
| 00565-75-3 | 2,3,4-trimethylpentane | 25.53 | 27.31 | 0.20 | 0.20 |
| 00108-88-3 | toluene | 154.34 | 176.23 | 1.18 | 1.32 |
| 00560-21-4 | 2,3,3-trimethylpentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00584-94-1 | 2,3-dimethylhexane | 11.28 | 13.06 | 0.09 | 0.10 |
| 00592-27-8 | 2-methylheptane | 12.47 | 13.65 | 0.10 | 0.10 |
| 00589-53-7 | 4-methylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00583-48-2 | 3,4-dimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00589-81-1 | 3-methylheptane | 13.06 | 14.25 | 0.10 | 0.11 |
| 00638-04-0 | cis-1,3-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-04-7 | trans-1,4-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 03522-94-9 | 2,2,5-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02613-65-2 | trans-1-methyl-3-ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-50-5 | cis-1-methyl-3-ethylcyclopentane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-66-0 | 1-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-26-5 | 2,2,4-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 14850-23-8 | trans-4-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-65-9 | n-octane | 0.00 | 10.09 | 0.00 | 0.08 |
| 13389-42-9 | trans-2-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-03-6 | trans-1,3-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 16747-30-1 | 2,4,4-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 07642-04-8 | cis-2-octene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01069-53-0 | 2,3,5-trimethylhexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02213-23-2 | 2,4-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02207-01-4 | cis-1,2-dimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 01072-05-5 | 2,6-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 01678-91-7 | ethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00926-82-9 | 3,5-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00100-41-4 | ethylbenzene | 18.21 | 28.69 | 0.14 | 0.21 |
| 01839-63-0 | 1,3,5-trimethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |
| 03074-71-3 | 2,3-dimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00108-38-3 | m- & p-xylene | 40.28 | 70.63 | 0.31 | 0.53 |
| 02216-34-4 | 4-methyloctane | 10.07 | 11.26 | 0.08 | 0.08 |
| 03221-61-2 | 2-methyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02216-33-3 | 3-methyloctane | 9.48 | 10.07 | 0.07 | 0.08 |
| 00100-42-5 | styrene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-47-6 | o-xylene | 11.59 | 24.28 | 0.09 | 0.18 |
| 14720-74-2 | 2,2,4-trimethylheptane | 0.00 | 0.00 | 0.00 | 0.00 |
| 06236-88-0 | 1-methyl-4-ethylcyclohexane | 0.00 | 0.00 | 0.00 | 0.00 |

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|------------|--------------------------------------|----------|----------|--------|--------|
| 02091-95-6 | 2,2,5-trimethylheptane | 1.18 | 1.77 | 0.01 | 0.01 |
| 00124-11-8 | 1-nonene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00111-84-2 | n-nonane | 2.97 | 5.34 | 0.02 | 0.04 |
| 04110-44-5 | 3,3-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 00098-82-8 | (1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 07146-60-3 | 2,3-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-87-1 | 2,2-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 15869-89-3 | 2,5-dimethyloctane | 0.60 | 0.60 | 0.00 | 0.00 |
| 04032-94-4 | 2,4-dimethyloctane | 0.00 | 0.00 | 0.00 | 0.00 |
| 02051-30-1 | 2,6-dimethyloctane | 0.60 | 1.20 | 0.00 | 0.01 |
| 00103-65-1 | n-propylbenzene | 0.00 | 6.11 | 0.00 | 0.05 |
| 00620-14-4 | 1-methyl-3-ethylbenzene | 1.11 | 17.77 | 0.01 | 0.13 |
| 00622-96-8 | 1-methyl-4-ethylbenzene | 0.56 | 8.33 | 0.00 | 0.06 |
| 00108-67-8 | 1,3,5-trimethylbenzene | 1.11 | 9.44 | 0.01 | 0.07 |
| 00871-83-0 | 2-methylnonane | 2.96 | 0.00 | 0.02 | 0.00 |
| 00611-14-3 | 1-methyl-2-ethylbenzene | 0.00 | 5.00 | 0.00 | 0.04 |
| 00095-63-6 | 1,2,4-trimethylbenzene | 0.56 | 72.19 | 0.00 | 0.54 |
| 00538-93-2 | (2-methylpropyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00135-98-8 | (1-methylpropyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00124-18-5 | n-decane | 7.69 | 11.83 | 0.06 | 0.09 |
| 00535-77-3 | 1-methyl-3-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00526-73-8 | 1,2,3-trimethylbenzene | 0.00 | 5.55 | 0.00 | 0.04 |
| 00099-87-6 | 1-methyl-4-(1-methylethyl)benzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00496-11-7 | 2,3-dihydroindene (indan) | 1.64 | 2.18 | 0.01 | 0.02 |
| 00527-84-4 | 1-methyl-2-(1-methylethyl)benzene | 0.56 | 1.12 | 0.00 | 0.01 |
| 00141-93-5 | 1,3-diethylbenzene | 0.00 | 8.37 | 0.00 | 0.06 |
| 01074-43-7 | 1-methyl-3-n-propylbenzene | 0.00 | 5.58 | 0.00 | 0.04 |
| 00105-05-5 | 1,4-diethylbenzene | 0.00 | 3.91 | 0.00 | 0.03 |
| 01074-55-1 | 1-methyl-4-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-74-7 | 1,3-dimethyl-5-ethylbenzene | 0.00 | 5.02 | 0.00 | 0.04 |
| 00135-01-3 | 1,2-diethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01074-17-5 | 1-methyl-2-n-propylbenzene | 0.00 | 2.23 | 0.00 | 0.02 |
| 01758-88-9 | 1,4-dimethyl-2-ethylbenzene | 0.00 | 2.23 | 0.00 | 0.02 |
| 00874-41-9 | 1,3-dimethyl-4-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00934-80-5 | 1,2-dimethyl-4-ethylbenzene | 0.00 | 6.14 | 0.00 | 0.05 |
| 02870-04-4 | 1,3-dimethyl-2-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 01120-21-4 | n-undecane (hendecane) | 13.00 | 4.14 | 0.10 | 0.03 |
| 00933-98-2 | 1,2-dimethyl-3-ethylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00095-93-2 | 1,2,4,5-tetramethylbenzene | 0.00 | 2.79 | 0.00 | 0.02 |
| 00527-53-7 | 1,2,3,5-tetramethylbenzene | 0.00 | 3.35 | 0.00 | 0.03 |
| 01074-92-6 | 1-(1,1-dimethylethyl)-2-methylbenzen | 0.00 | 0.00 | 0.00 | 0.00 |
| 00874-35-1 | 5-methylindan | 0.00 | 2.20 | 0.00 | 0.02 |
| 00824-22-6 | 4-methylindan | 0.00 | 0.00 | 0.00 | 0.00 |
| 16021-20-8 | 1-ethyl-2-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 00824-63-5 | 2-methylindan | 0.00 | 2.20 | 0.00 | 0.02 |
| 00488-23-3 | 1,2,3,4-tetramethylbenzene | 0.00 | 8.37 | 0.00 | 0.06 |
| D0538-68-1 | n-pentylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| D1595-11-5 | 1-methyl-2-n-butylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0091-20-3 | naphthalene | 0.00 | 0.53 | 0.00 | 0.00 |
| D0098-19-1 | 1-(1,1-dimethylethyl)-3,5-DMbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| 17171-72-1 | 1,3-di-n-propylbenzene | 0.00 | 0.00 | 0.00 | 0.00 |
| D0112-40-3 | n-dodecane | 0.00 | 0.00 | 0.00 | 0.00 |
| MR-ST | Mid-Range Subtotal | 2949.11 | 3225.47 | 22.57 | 24.09 |
| NMHC-ST | NMHC Subtotal | 13066.55 | 13389.11 | 100.00 | 100.00 |